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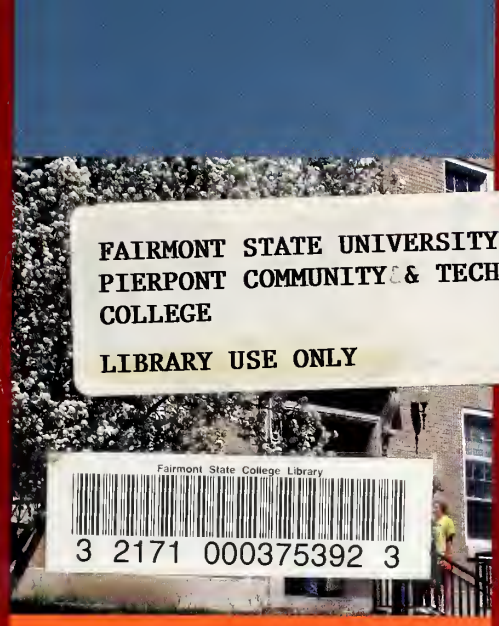

FAIRMONT STATE UNIVERSITY

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FAIRMONT STATE UNIVERSITY

2006-2007
Undergraduate Catalog

Volume 120, Number 1
Fairmont, West Virginia

INCLUDING

PIERPONT COMMUNITY & TECHNICAL COLLEGE

A DIVISION OF FAIRMONT STATE UNIVERSITY

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Academic Calendar 2006-2008

2006 FALL SEMESTER		*2007 FALL SEMESTER
Monday - Friday, August 14 - 18	Faculty Professional Development Week	Monday - Friday, August 13 - 17
Saturday, August 19	Weekend College Begins – 1st 8 Weeks	Saturday, August 18
Sunday, August 20	Residence Halls Open For New Students	Sunday, August 19
Sun., Mon., Tues., August 20, 21, 22	Orientation	Sun., Mon., Tues, Aug. 19, 20, 21
Monday, August 21	Scheduling For New Students	Monday, August 20
Monday, August 21	Classes Meeting Mondays Only 4 P.m. And After Begin	Monday, August 20
Tuesday, August 22	Classes Meeting Tuesdays Only 4 P.m. And After Begin	Tuesday, August 21
Tuesday, August 22	Scheduling For Returning Students	Tuesday, August 21
Wednesday, August 23	Daytime Classes Begin	Wednesday, August 22
Thursday, August 31	Applications For May 2007 Graduation Due	
	Applications For May 2008 Graduation Due	Thursday, August 30
Monday, September 4	Labor Day, No Classes	Monday, September 3
Friday, October 13	Mid Semester	Friday, October 12
Saturday, October 21	Weekend College Begins – 2nd 8 Weeks	Saturday, October 20
Monday, Oct. 23 – Thurs., Nov. 16	Advanced Scheduling For Spring Semester	Monday, Oct. 22 – Thur., Nov. 15
Monday-Friday, November 20-24	Thanksgiving Recess, No Classes	Monday-friday, November 19-23
Monday, November 27	Classes Resume, 8 a.m	Monday, November 26
Friday, December 8	Last Day Of Classes	Friday, December 7
Monday-Friday, December 11-15	Final Exams	Monday-Friday, December 10-14
Friday, December 15	Residence Halls Close	Friday, December 14
Saturday, December 16	Commencement	Saturday, December 15

2007 SPRING SEMESTER		* 2008 SPRING SEMESTER
Monday- Friday, January 8-12	Faculty Development Week	Monday-Friday, January 7-11
Friday, January 12	Residence Halls Open	Friday, January 11
Friday, January 12	Scheduling/Orientation	Friday, January 11
Saturday, January 13	Weekend College Begins – 1st 8 Weeks	Saturday, January 12
Monday, January 15	Martin Luther King Day, No Classes	
Tuesday, January 16	Classes Begin	Monday, January 14
Thursday, January 25	Applications For Dec. 2007 Gradution Due	
	Applications For Dec. 2008 Graduation Due	Thursday, January 24
	Martin Luther King Day, No Classes	Monday, January 21
Friday, March 9	Mid Semester	Friday, March 7
Monday-Friday, March 12-16	Spring Break, No Classes	Monday-Friday, March 10-14
Saturday, March 17	Weekend College Begins – 2nd 8 Weeks	Saturday, March 15
Monday, March 19	Classes Resume, 8 a.m	Monday, March 17
	Good Friday, No Classes	Friday, March 21
Mon. March 26 – Thurs., April 19	Advanced Scheduling For Fall Semester	Monday, Mar. 24 – Thurs., April 17
Friday, April 6	Good Friday, No Classes	
Friday, May 4	Last Day Of Classes	Friday, May 2
Monday-friday, May 7-11	Final Exams	Monday-Friday, May 5-9
Friday, May 11	Residence Halls Close	Friday, May 9
Saturday, May 12	Commencement	Saturday, May 10

2007 FIRST SUMMER TERM		* 2008 FIRST SUMMER TERM
Monday, May 21	Scheduling/fee Payment/classes Begin	Monday, May 19
May 28	Memorial Day, No Classes	Monday, May 26
	Applications For Aug. 2008 Graduation Due	Thursday, May 29
Thursday, May 31	Applications For Aug. 2007 Graduation Due	
Saturday, June 2	Summer Weekend College Begins	Saturday, May 31
Thursday, June 21	First Summer Term Ends	Thursday, June 19

2007 SECOND SUMMER TERM		* 2008 SECOND SUMMER TERM
Monday, June 25	Scheduling/fee Payment/classes Begin	Monday, June 23
Wednesday, July 4	Independence Day, No Classes	Thursday, July 3
Thursday, July 26	Second Summer Term Ends	Thursday, July 24

**2007-08 Academic Calendar subject to change*

CATALOG POLICY

It is the responsibility of students to be knowledgeable of official Fairmont State policies and to meet all requirements in the Catalog. It provides the best possible current information on practices and intentions of the institution. Fairmont State reserves the right to change provisions or requirements at any time to reflect curricular changes and administrative regulations and procedures. The Catalog is not considered a binding contract between the student and the institution. It is for informational purposes only.

Students should keep informed of current degree, curriculum, and course requirements. The academic advisors and appropriate administrative offices of Fairmont State may be consulted for further information.

A student who enrolls at Fairmont State shall follow the provisions of the catalog in use at the time of admission or any subsequent catalog, providing all of the subsequent catalog is adopted.

Students who have interrupted their schooling for more than one year will become subject to the provisions of the current catalog.

POLICY ON EQUAL OPPORTUNITY AFFIRMATIVE ACTION

Fairmont State is an Equal Opportunity-Affirmative Action institution. In compliance with Title VI of the Civil Rights Act of 1964, Title VII of the Civil Rights Act, West Virginia Human Rights Act, Title IX (Educational Amendments of 1972), Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, and the other applicable laws and regulations, the institution provides equal opportunity to all prospective and current members of the student body, faculty, and staff on the basis of individual qualifications and merit without regard to race, sex, religion, age, national origin, disability, or sexual orientation as identified and defined by law.

Fairmont State neither affiliates knowingly with nor grants recognition to any individual, group or organization having policies that discriminate on the basis of race, color, age, religion, sex, national origin, disability, or sexual orientation as defined by applicable laws and regulations. Further inquiries may be directed to the Director of Affirmative Action who is the Section 504, Title IX, and ADA Coordinator, Room 222 Hardway Hall, telephone 304-367-4247.

THE FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT

The Family Educational Rights and Privacy Act of 1974 provides students with the right to inspect and review information contained in their educational records, to challenge the contents of their educational records, to have a hearing if the outcome of the challenge is unsatisfactory and to submit explanatory statements for inclusion in their files if they feel the decisions of the hearing panels are unacceptable. Students wishing to review their educational records must contact the campus official in charge of the office in which the records are located. Students may not inspect records to which they have waived their rights of inspection and review.

Within the Fairmont State community, only those members, individually or collectively, acting in the student's educational interest are allowed access to student education records. These members include personnel in the offices of Admissions and Records, Student Services, Financial Aid, Business, academic colleges and schools, departments, academic advisors and athletic departments.

At its discretion the institution may provide Directory Information in accordance with the provisions of the Act to include: student name, address, telephone number, date and place of birth, major field of study, dates of attendance, degrees and awards received, the most recent previous educational agency or institution attended by the student, participation in officially recognized activities and sports, and weight and height of members of athletic teams. Students may withhold directory information by notifying the Registrar's Office in writing.

Fairmont State may disclose academic information to parents of students by having parents establish the student's dependency as defined by the Internal Revenue Code of 1954, Section 152. Dependency status may be established by the presentation of a certified copy of the parents' most recent federal income tax form listing the student as a dependent.

DRUG-FREE AWARENESS PROGRAM

In compliance with the Drug-Free Workplace Act of 1988 and the Drug-Free Schools and Communities Act Amendments of 1989, Fairmont State has a Drug-Free Awareness Program designed to prevent the unlawful possession, use, or distribution of illicit drugs and alcohol by students and employees. Further inquiries may be directed to the Assistant to the President or the Vice President for Student Affairs.

SERVICES FOR STUDENTS WITH DISABILITIES

As required by Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, reasonable accommodations are provided for those students whose disability may affect their pursuit of a college education. These students must contact the Coordinator for Services for Students with Disabilities, who is located in Student Affairs, Colebank Hall 307 if these services are desired. Documentation of the disability that is to be accommodated for is required. Documentation requirements are available on the website. Priority scheduling procedures have been established for students with disabilities. Students should contact their advisor for priority class pre-registration. For additional information contact the Coordinator for Student Disability Services at 367-4686 or consult Fairmont State's Disability Services Webpage at http://www.fairmont-state.edu/studentlife/disabilityservices/default.asp

ASSESSMENT OF STUDENT ACADEMIC ACHIEVEMENT

Fairmont State is committed to providing quality educational opportunities and experiences for every student. While grades are one measure of student performance, they do not provide the institution with the necessary data to ascertain the areas of the curriculum that are strong and areas that need improvement. Therefore, students attending Fairmont State are required to participate in periodic assessment activities as directed by the institution. Student assessment will normally occur at the

following times in the student's college career: upon entering the institution for course placement and for gathering baseline data, at the end of the sophomore year for University students, and prior to graduation for all students. Assessment data may be collected at additional times at the discretion of the institution. The purpose of gathering assessment data is to monitor the quality of the academic programs and to improve, when necessary, the educational experience of students.

COMPLIANCE WITH MILITARY SELECTIVE SERVICE ACT

State law provides that a male person who has attained the age of eighteen (18) years may not enroll in a state-supported institution of postsecondary education unless he is in compliance with the Military Selective Service Act (50 U.S. Code, Appendix 451, et seq. and the amendments thereto). Also, a male person may not receive a loan, grant, scholarship or other financial assistance for postsecondary higher education funded by state revenue, including federal funds or gifts and grants accepted by this State, or receive a student loan guaranteed by the State unless he is in compliance with the Military Selective Service Act. Selective Service Act registration information should be available at all United States Postal Service facilities and may be available at some high schools. The Selective Service System also provides information through a web site at http://www.sss.gov.

Introduction

Fairmont State consists of Pierpont Community & Technical College and Fairmont State University. The institutions share the same campus facilities and students have access to all the services both institutions have to offer. Facilities of particular interest include the Administration Building, Hardway Hall, which traces its origins to 1915 when its cornerstone was laid. It is included on the National Register of Historic Places.

The Robert C. Byrd National Aerospace Education Center in Bridgeport, is a 40,000-square foot structure designed to provide programs essential to the aviation industry. In the fall of 1999, Fairmont State opened its new Gaston Caperton Center in downtown Clarksburg, a 36,000-square foot facility with classrooms, natural science laboratories, computer labs, conferencing areas and a multipurpose room.

In the fall of 2004, Fairmont State dedicated a new 940-space parking garage and its newest Residence Hall, Bryant Place. Falcon Center, the new student activity center, opened in 2005. It houses dining facilities, the bookstore, fitness center, meeting rooms, swimming pool and other facilities that make living away from home a little bit easier. Other offices in the Falcon Center include Health Services, Department of Public Safety, and the Copy Center. Plans are also underway to construct a new Technology Building and a Center for Fine Arts.

Fairmont State has made a significant investment to upgrade and maintain its technology equipment, software and infrastructure. Campus buildings are interconnected by fiber optic cabling, with Internet access available in all classrooms, offices, labs and residence halls. Also, a wide-area network connects the Gaston Caperton Center, the Robert C. Byrd National Aerospace Education Center, and the Center for Workforce Education with the main campus.

Fairmont State operates under the authority of the Fairmont State Board of Governors and is governed by its presidents with the aid and advice of its Board of Governors, Administrators, Faculty Senate, Faculty Assembly, and Student Government.

Pierpont Community & Technical College, a comprehensive community college, provides academic, technical/occupational, and general education programs of two years duration, one-year certificates, developmental skills courses, continuing education courses, community service programs, and workforce development and training. The result has been a sharp increase in the number of nontraditional students who have returned to formal education for reasons of job obsolescence, to start new careers, or wishing to achieve upward social mobility along a career ladder. The Community & Technical College takes pride in the diversity of its programs and its commitment to making learning a lifelong process for all age groups on a full-time and part-time student basis. There are approximately 3,500 students enrolled on the main campus and at off campus sites.

Fairmont State University offers courses of study leading to associate's degrees in nursing and technology; bachelor's degrees in the humanities, social and natural sciences, teacher education, nursing, business, technology, and fine arts; and select master's degree programs. Pre-professional study is available in several fields, including medicine, dentistry, law, pharmacy, architecture, engineering and physical therapy. The University enrolls approximately 4,000 students.

Academic excellence and personal growth and fulfillment, the principal purposes of Fairmont State, are complemented by active fine arts, publications and sports programs. Year-round contemporary film, lecture and music series are important parts of the social and cultural calendar.

Fairmont State's 115-acre campus is located on a hillside overlooking Locust Avenue in Fairmont, WV. Fairmont, with a population of about 20,000, is the seat of government for Marion County. It is located approximately 90 miles south of Pittsburgh, PA.

Pierpont Community & Technical College

MISSION STATEMENT

The mission of Pierpont Community & Technical College is to enhance the quality of life for people of north-central West Virginia through accessible, affordable, comprehensive, responsive, workforce-related training, and quality higher education opportunities.

To fulfill this mission, Pierpont Community & Technical College will:

- Provide a comprehensive selection of career/technical educational opportunities at the certificate and associate degree levels developed through interaction with employers, employees, and college personnel
- Offer transfer education opportunities enabling students to acquire an affordable general education background before matriculating to the college or university of choice
- Provide opportunities for seamless transition from certificates to associate and baccalaureate degrees
- Make available developmental educational opportunities to students who need assistance in improving academic skills to be successful in higher education

- Develop and deliver continuing and community educational opportunities throughout north-central West Virginia such as lifelong learning opportunities, occupational recertification programs, and higher education opportunities for students enrolled in secondary schools
- Provide workforce training and economic development activities for the citizens of north-central West Virginia based on needs of the community and region
- Focus on development of cognitive, affective, and psychomotor skills to foster individual growth, career development, responsible citizenship, and commitment to lifelong learning

The College concentrates its energies and resources on its students, many of whom are the first generation of their families to attend college, adults, returning to college or enrolling in higher education for the first time, and transfer students from community and technical colleges. The College, therefore, offers its diverse student body a wide range of programs, flexible scheduling, and support services, all designed to foster success in the modern world. To strengthen intellectual development, all students pursuing a degree at Pierpont Community & Technical College are engaged in a general education program, a body of course work designed to expand their knowledge of civilization, society, scientific inquiry, and artistic expression while preparing them to think interrelationships among disciplines and prepare for a lifetime of learning.

The College is committed to student learning and focuses its resources on programs that prepare students for careers and advanced education in West Virginia and beyond. Pierpont Community & Technical College provides a broad spectrum of degree options in business and offers programs with specialized accreditation in engineering technology and health careers. As a multipurpose institution, Pierpont Community & Technical College provides seamless transitions from public schools or certificate programs or associate degrees to baccalaureate degrees.

Pierpont Community & Technical College is closely identified with its community. Partnerships with business and industry, public schools, government agencies and other organizations contribute to the economic programs, the College fosters enlightened and productive citizenship in its immediate location, the region and the world.

PHILOSOPHY AND OBJECTIVES

Pierpont Community & Technical College, an undergraduate institution operating under the authority of the Fairmont State Board of Governors, is governed by its president with the aid and advice of its Board of Governors, administrators, Faculty Assembly, and Student Government.

The College offers programs of career-technical education and grants a one-year certificate and the degrees of Associate in Arts, Associate in Science, or Associate in Applied Science after two years of study.

Pierpont Community & Technical College considers that its broad objective is to educate its students as intelligent and productive persons, capable of participating in and understanding the world of the twenty-first century. Accordingly, the College seeks to provide a suitable environment for free and responsible inquiry into the nature, sources and implications of human knowledge and culture; and it challenges students to promote their own intellectual, social and personal development.

The College faculty serves this objective by guiding students in acquiring knowledge and by maintaining a dialogue with them. The College fully supports the ideal of a well- educated society and upholds the academic freedom of its faculty and students, confident that the best interests of the community are served when the search for truth is imaginative and vigorous.

The College follows a liberal policy of student admissions and believes that it can help highly-motivated students to overcome many deficiencies in their academic preparation. Because academic standards are high, the Pierpont Community & Technical College degree represents a level of achievement respected throughout the nation.

Drawing many students from its immediate vicinity, the College welcomes the enthusiastic support it receives from Fairmont and surrounding areas. In return it participates actively in community projects, shares its programs and facilities with the public and serves the community as a center of information and culture.

Specifically, the mission of Pierpont Community & Technical College is to provide programs needed by those in its geographic service area to the extent permitted by its financial and human resources and its assigned role in the State's system of public higher education. This mission is accomplished by meeting these objectives:

- Providing, through an administratively-linked Community and Technical College, a variety of vocational/occupational programs of two years duration or less.
- Providing opportunities for occupationally oriented study through expansion of existing industrial technology programs and the development of additional career-related curricula.
- Bringing selected college study opportunities into communities in the College's service region through the use of the mass media, regional educational centers, external degree programs and other forms of nontraditional study.
- Encouraging a broad segment of the populace, including various age groups and the economically deprived, to avail themselves of educational opportunities.
- Serving the greatest number of students by holding College costs at the lowest possible level and providing financial support to those who need it to gain equal access to higher education.
- Relating the breadth of the curriculum to the availability of appropriate employment opportunities and the needs of business, industrial and public service agencies in the College's service area.
- Offering continuing education programs to provide career updating, cultural enrichment and personal skill development.
- Providing advisory, counseling and placement services to enable students to make satisfactory decisions about academic and personal problems and to make successful career and employment choices.
- Offering a variety of cultural, recreational, and social activities to complement academic pursuits.

ACCREDITATION

Of great importance to the reputation of a college is how it ranks scholastically with other colleges. Accreditation means that a college has been carefully evaluated and approved in its governance, in each curriculum, in the quality of its faculty, in the adequacy of facilities, library, equipment, and laboratories.

To assure its stature and academic excellence, a college obtains accreditation from both regional and national agencies and joins certain accrediting organizations.

Pierpont Community & Technical College is accredited by the Higher Learning Commission, the North Central Association, 30 North LaSalle Street, Suite 2400, Chicago, Illinois 60602-2504, (800) 621-7440.

Selected programs of Technology are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, (410) 347-7700. The A.A.S. degree in Aviation Maintenance Technology is approved by the Federal Aviation Administration and meets 15 requirements of Federal Aviation Regulation 147. Food Service programs are accredited by American Culinary Federation. Two programs are recognized by the National Restaurant Association.

Health Career programs are accredited by their respective accrediting agencies. The Medical Laboratory Technology program is accredited by the National Accreditation Agency for Clinical Laboratory Sciences; the Health Information Technology program is accredited by the Commission on Accreditation of Allied Health Education Programs; the Veterinary Technology program is accredited by the Veterinary Medical Association; and the Physical Therapist Assistant program is accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association.

Fairmont State is also a member of the American Association of State Colleges and Universities, American Council on Education, American Library Association, West Virginia Library Association, West Virginia Press Association, and American Association of Community Colleges.

Fairmont State University

PHILOSOPHY AND OBJECTIVES

Fairmont State University considers its broad objective to be the education of its students as intelligent and productive persons, capable of participating in and understanding the world of the twenty-first century. Accordingly, the University seeks to provide a suitable environment for free and responsible inquiry into the nature, sources and implications of human knowledge and culture, and it challenges students to promote their own intellectual, social and personal development.

The University faculty serves this objective by guiding students in acquiring knowledge and by maintaining a dialogue with them. The University fully supports the ideal of a well-educated society and upholds the academic freedom of its faculty and students, confident that the best interests of the community are served when the search for truth is imaginative and vigorous.

The University follows a liberal policy of student admissions and believes that it can help highly-motivated students to overcome many challenges in their academic preparation. Because its academic standards are high, the Fairmont State University degree represents a level of achievement respected throughout the nation.

The University has a traditional interest in preparing teachers for public schools in West Virginia, as well as in other states. Recognizing the importance of able teachers to a progressive society, it requires outstanding academic performance of its teacher candidates and offers them sound professional training for elementary and secondary teaching.

Drawing many students from its immediate vicinity, the University welcomes the enthusiastic support it receives from Fairmont and surrounding areas. In return it participates actively in community projects, shares its programs and facilities with the public and serves the community as a center of information and culture.

Specifically, the mission of Fairmont State University is to provide programs needed by those in its geographic service area, to the extent permitted by its financial and human resources and its assigned role in the state's system of public higher education. This mission is accomplished by meeting these objectives:

- Offering a broad range of traditional baccalaureate degree programs in the arts and sciences, teacher education and business administration.
- Providing opportunities for occupationally-oriented baccalaureate study through expansion of existing industrial technology programs and the development of additional career-related curricula.
- Bringing selected study opportunities into communities in the University's service region through the use of the mass media, regional educational centers, external degree programs and other forms of nontraditional study.
- Encouraging a broad segment of the populace, including various age groups and the economically deprived, to avail themselves of educational opportunities.
- Serving the greatest number of students by holding University costs at the lowest possible level and providing financial support to those who need it to gain equal access to higher education.
- Relating the breadth of the curriculum to the availability of appropriate employment opportunities and the needs of business, industrial and public service agencies in the University's service area.
- Offering continuing education programs to provide career enhancement, cultural enrichment and personal skill development.
- Providing advisory, counseling and placement services to enable students to make satisfactory decisions about academic and personal problems and to make successful career and employment choices.
- Offering a variety of cultural, recreational, and social activities to complement academic pursuits.

ACCREDITATION

Of great importance to the reputation of a university is how it ranks scholastically with other institutions. Accreditation means that a university has been carefully evaluated and approved in its governance, in each curriculum, in the quality of its faculty, in the adequacy of facilities, library, equipment and laboratories.

To assure its stature and academic excellence, a university obtains accreditation from both regional and national agencies and joins certain accrediting organizations.

Fairmont State University is accredited by The Higher Learning Commission and a member of the North Central Association, 30 North LaSalle Street, Suite 2400, Chicago, Illinois 60602-2504, (800) 621-7440.

The Teacher Education program is approved by the West Vir-

ginia Board of Education and accredited by the National Council for the Accreditation of Teacher Education. In addition, selected teaching specializations are nationally approved by their respective learned society and/or professional organization.

Selected programs in the Department of Technology are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, (410) 347-7700. The following programs are currently accredited by TAC of ABET: A.S. and B.S. Civil, A.S. and B.S. Electronics, and A.S. and B.S. Mechanical Engineering Technology.

The A.S. Nursing program is accredited by the West Virginia Board of Examiners for Registered Professional Nurses and the National League for Nursing Accreditation Commission; the B.S. Nursing program is accredited by the Commission on Collegiate Nursing Education.

The University is also a member of the American Association of Colleges for Teacher Education, American Association of State Colleges and Universities, American Council on Education, National League for Nursing, American Library Association, West Virginia Library Association, and West Virginia Press Association.

THE MISSION STATEMENT OF FAIRMONT STATE UNIVERSITY

Fairmont State University, a comprehensive, multi-site, selective institution, offers a quality education in a diverse and supportive learning environment that fosters individual growth, professional and career development, lifelong learning, global understanding, and a commitment to excellence in academic and community pursuits. Serving the citizenry of north central West Virginia and beyond, Fairmont State University is a student-centered institution of first choice among students who desire a flexible and relevant learning experience. The University provides a well-rounded education, enabling students to gain the knowledge and skills needed for self-fulfilling, responsible citizenship and employability in a rapidly changing global environment.

The University concentrates its energies and resources on its students, many of whom are the first generation of their families to attend college, adults returning or enrolling in higher education for the first time, and transfer students from community and technical colleges. The University, therefore, offers its diverse student body a wide range of programs, flexible scheduling and support services, all designed to foster success in the modern world. To strengthen intellectual development, all students pursuing a degree at Fairmont State University are engaged in a general education program, a body of coursework designed to expand their knowledge of civilization, society, scientific inquiry and artistic expression, while preparing them to think critically and communicate clearly. Through these studies, students also explore the interrelationships among disciplines and prepare for a lifetime of learning.

The University is committed to student learning and focuses its resources on programs that prepare students for careers and advanced education in West Virginia and beyond. Along with its significant history of teacher education, Fairmont State University provides a broad spectrum of degree options in business, fine and liberal arts, and social and natural sciences and offers programs with specialized accreditation in engineering technology and health careers. As a multipurpose institution, Fairmont State University provides seamless transitions from public schools, certificate programs or associate degrees to baccalaureate degrees. In keeping with its tradition of academic excellence, the University promotes graduate education by offering select graduate programs and by providing on-campus access to graduate programs of other institutions.

Fairmont State University is closely identified with its community. Partnerships with business and industry, public schools, government agencies and other organizations contribute to the economic, cultural and social development of the region. Through these community relationships and educational programs, the University fosters enlightened and productive citizenship in its immediate locale, the region and the world.

DESIRED PROFILE OF A FAIRMONT STATE UNIVERSITY GRADUATE

1.) Students should acquire an informed appreciation of the arts, the humanities and the social and natural sciences; they should become aware of the relationships of the academic disciplines among themselves and with broader social and ethical issues.

2.) Students should develop competence in mathematics, oral and written communication, reading and listening.

3.) Students should acquire problem-solving skills to aid them in making decisions about personal values and career strategies. They should demonstrate proficiency in their major fields of study so as to be competitive in the job market or gain admission to respected graduate or professional schools.

4.) Students should have techniques for coping with the vast amounts of information available in a rapidly changing society; they should embrace the necessity and satisfaction of lifelong learning.

5.) Students should develop sensitivity in matters of social justice, accepting and appreciating ethnic or personal differences among individuals in our society. Students should maintain an ethical view that respects the life, property, opinions, and feelings of others.

6.) Students should have the knowledge and attitudes that lead to physical health and well-being.

Admission

Pierpont Community & Technical College

OPEN ADMISSIONS PHILOSOPHY

Pierpont Community & Technical College operates an "open door" admission policy. Admission is open to anyone with a high school diploma or GED or ACT/SAT scores or Compass test scores and who is beyond the age of compulsory attendance in the state of West Virginia. Even without a high school diploma, individuals may enroll in many of the Community & Technical College courses, as a special student. This "open door," however, does not guarantee an education to everyone, but it does make it possible for everyone to enter the College and to have the op-

portunity to pursue programs in higher education to the limit of their ability and particular potential.

Eligibility to enroll in the Community and Technical College does not necessarily imply eligibility to enter all its degree programs, several of which may be competitive and limited in the number of students admitted.

Since competitive programs have limited enrollment, applicants should complete the ACT or SAT early and have their high school transcripts forwarded early in the fall. To insure consideration, students are required to make early application with test scores and transcripts. Students applying for scholarships should have transcripts forwarded early in the fall.

A minimum of 2.0 (C) grade average for all courses attempted and for all courses in the area of specialization is required for graduation with an associate degree or a one year certificate. Students also must have completed at least 15 credit hours of the total hours required in an associate degree or 8 credit hours of the total required in a certificate program.

GENERAL ADMISSION PROCEDURE

Students seeking admission to Pierpont Community & Technical College must file an application for admission. Applications and supporting credentials must be on file at least two weeks prior to the opening of a semester or term. All credentials submitted in support of an application for admission become the property of the College and will not be returned to the student. Any student admitted upon the basis of false credentials will be subject to immediate dismissal from college.

Students who fail to register during the semester or term for which they have been admitted must file another application in order to gain admission at a later date. Separate applications for residence halls must be submitted to the Office of Residence Life.

Any change in local address of any student at Pierpont Community & Technical College must be reported to the Registrar.

ASSOCIATE DEGREE AND CERTIFICATE PROGRAMS: DEGREE-SEEKING ADMISSIONS REQUIREMENTS

First-Time Freshman:

1.) Application for Admission
2.) High School Transcript (Partial or Complete)

-or-

GED (for home schooled students or for students who don't have a high school diploma). Students who do not have a high school diploma or a GED are admissible if testing shows that they have an ability to benefit.

-or-

ACT/SAT or COMPASS Scores

3.) Immunization Records (if born after January 1, 1957)
4.) Statement of Activities (for students out of high school six months or longer)

Transfers

1.) Application for Admission
2.) College Transcripts (from an accredited institution(s); if there are fewer than 16 earned credit hours, a high school transcript or GED and ACT, SAT, COMPASS, or other approved institutional test scores are also required. ACT/ SAT with specific scores may be the required test for specific programs; please refer to the catalog for details.)
3.) Immunization Records (if born after January 1, 1957)
4.) Statement of Activities (for students out of high school six months or longer)

Probation

Students who are on probation from another institution or FS with lower than a 2.0 GPA must submit a high school transcript or a GED and ACT, SAT, COMPASS, and will be admitted on probation.

Suspension

Pierpont Community & Technical College will evaluate on a case by case basis petitions from the students who apply for admission while on academic suspension from another institution or from FSU. In general, only students wishing to do remedial work will be granted admission prior to the suspension being removed.

NON DEGREE-SEEKING ADMISSION REQUIREMENTS

(High School students and transient students)

1.) Application for Admission
2.) Letter of Certification (only for high school students- principal granting permission for students to take class, and for transient students-home institutions granting permission to take transferable class(es).

(After completion of 12 credit hours, students wishing to seek a degree must submit an application for admission and additional credentials and/or be tested for placement).

THE AMERICAN COLLEGE TEST/SCHOLASTIC APTITUDE TEST

Some degree and certificate programs in Pierpont Community & Technical College require applicants to provide American College Test (ACT) or Scholastic Aptitude Test (SAT) scores. All students are encouraged to take the ACT, because scores on the test are used in placing students in English and Mathematics, for scholarships and loans, and in the academic counseling program. High school students are urged to take the test during their junior year. Financial aid applicants should take the test either during the summer prior to the beginning of the senior year, or on the October or December dates.

IMMUNIZATION REQUIREMENT

All students of the State System of Higher Education under the jurisdiction of the State College System Board of Directors who were born after January 1, 1957, are required to provide proof of immunity to measles and rubella. Students are requested to provide proof of immunity on or before the date of enrollment.

ADMISSION AS NON DEGREE-SEEKING

(Nonmatriculant)

Admission to Pierpont Community & Technical College as a non degree-seeking or nonmatriculant student is open to anyone who has completed fewer than 15 semester hours cumulative at any college or university. The student must be a high school graduate or a GED recipient. Admission is intended for students registering for occasional college courses with no degree objective. Students may complete up to a cumulative total of 15 hours of college credit. A student who has completed 15 hours of regular college credit is required to apply for admission to Pierpont Community & Technical College for further study and meet all the requirements for admission for a specific degree or certificate objective.

HIGH SCHOOL STUDENTS

Outstanding high school students may be admitted as non degree-seeking students only, either in the summer following completion of the junior year in high school or during the senior year in high school. No more than 15 hours may be earned before admission as a regular student. In addition a student must meet the following criteria:

1.) Complete the junior year of the high school curriculum.
2.) Maintain a minimum 3.0 high school grade point average.
3.) Receive recommendation of the high school principal.
4.) File an application for admission.
5.) Pay regular college fees.

SPECIAL ADMISSION FOR HIGH SCHOOL NONGRADUATES

Students who are not high school graduates may be admitted to Pierpont Community & Technical College by passing the General Educational Development (GED) Tests. They must be veterans, or persons over 19 years of age, or persons past the age they would have been had they remained in high school until they graduated. Such persons must have been out of school more than one year preceding application for admission. GED results must be sent directly to the Office of Admissions from the testing center.

INTERNATIONAL STUDENTS

Admission files must be complete six weeks prior to the start of the semester. Upon acceptance, information will be entered into SEVIS and an I-20 will be issued for application of F1 Visa. Admission application forms and credentials include:

1.) Application for admission
2.) TOEFL (Test of English as a Foreign Language) score of 500 paper or 173 computer
3.) Proof of financial support, submitted at least three months before the semester begins
4.) Housing, if applicable
5.) Official certified English translation of high school transcript
6.) ACT (American College Test) or SAT (Scholastic Aptitude Test) scores
7.) Official course by course certified English translation of college transcript, if applicable
8.) Health certificate
9.) A brief résumé of educational and work experience if the student has been out of high school or college for more than a year

TRANSFER STUDENTS

Any applicant for admission to Pierpont Community & Technical College who has attended another institution of collegiate rank will be classified as a transfer student. The College does not, under any conditions, disregard college level work earned elsewhere. Credit earned at other accredited colleges and universities will be allowed toward a degree if applicable. Transfer students must meet the admission requirements of Pierpont Community & Technical College. They must provide evidence of good standing at the institution last attended, and must have maintained a 2.0 or better average on all college work previously attempted.

Credits and grades earned at any public institution governed by the Higher Education Policy Commission shall be transferable to Pierpont Community & Technical College.

Students transferring fewer than 12 hours must provide an official copy of the high school transcript and ACT or SAT scores, along with a copy of the college transcript. These students must also meet admission requirements of the program into which they are transferring.

Students in associate degree or certificate programs who have a 2.5 high school grade average (GPA) and at least a composite score of 17 on the Enhanced American College Test (ACT) or 830 on the Scholastic Aptitude Test (SAT) and have completed the minimum high school unit requirements listed above may transfer to a four-year bachelor degree program by the deadline.

Students in associate degree or certificate programs who do not meet the requirements of a high school grade point average of 2.5 and the Enhanced American College Test (ACT) composite score of 17 or 830 on the Scholastic Aptitude Test (SAT) may qualify for transfer to a bachelor degree program upon completion of 30 semester hours with a 2.0 college grade point average. Students in this category who qualify for transfer to a bachelor degree program are required to make formal application for transfer. If applicable, the letter of application must list those college courses that have been completed to fulfill the unit requirements. Further, this application for transfer must be submitted to and approved by the Office of Admissions.

TRANSFERRING CORE COURSEWORK

According to System Procedure No. 31 of the State College System, students who transfer from one state college or university to another may transfer core coursework that will count toward fulfillment of general studies requirements at the receiving institutions.

Under the terms of the agreement, a student may transfer up to thirty-two credit hours of undergraduate coursework in the areas of English composition, communications and literature, mathematics, natural science, and social science as general studies credits. Copies of the agreement are available in the Office of the Registrar.

CONSORTIUM AGREEMENT

The Presidents of Glenville State College, Pierpont Community & Technical College, Fairmont State University, and West Virginia Northern Community College have entered into a collaborative consortium agreement for our students. Basically, this agreement acts as a more direct process for transient students at the four institutions, allowing for enrollment to occur at two institutions at the same time. New students need to contact the Office of Admissions for information; current students need to contact the Registrar's Office.

ADMISSION POLICY FOR LIMITED ENROLLMENT PROGRAMS

Competitive programs requiring separate applications are listed below. The program application, $20 nonrefundable application fee, high school transcript/GED scores, ACT/ SAT/COMPASS scores (Physical Therapy and Radiologic Technology **do not** accept COMPASS), college transcript (if applicable) and any other required information must be on file by the deadline listed on the program application.

The credentials are collected by the Office of Admissions and are submitted to the appropriate selection committee for consideration. Any application received after that date will be considered only on a space-available basis. All applicants are notified by letter concerning their admission status to the program.

Selection criteria are based primarily on academic background with some flexibility concerning life experience and training. Strong mathematics and science background is highly recommended. Consideration will be given to students who have successfully completed college course work. Students with a college cumulative grade point average of less than 2.0 must remedy this situation before they can be eligible for admission to the programs. Students who have completed a GED must show evidence of successful completion of required prerequisite courses.

Competitive Programs:

*Culinary Arts
*Health Information Technology
*Medical Laboratory Technology
*Pastry and Baking Arts
Physical Therapist Assistant
Radiologic Technology
Respiratory Care
*Veterinary Technology

**Applications will be accepted after the deadline; however, preference will be given to those students who meet the deadline date. Applications will be accepted until the class is filled. Application deadlines for these programs are listed on the individual program applications as well as the general admissions application to Fairmont State.*

Each competitive program has a separate application and a $20 nonrefundable application fee. All documents must be on file by the deadline. All applications of persons interested in the specific programs will be given every consideration in the selection process.

See specific program requirements in the "Program of Study" section of the catalog, or go to our website www.fairmontstate.edu, or students should check with the coordinators of the programs for other specific requirements.

CONTINUING EDUCATION UNITS

Various activities of community interest are provided by the College with recognition as Continuing Education Units (CEU). Permanent records of CEU completions are kept on file. CEU credit is not accepted toward completion of degree requirements.

ADVANCED PLACEMENT

Advanced placement and/or credit will be granted to entering freshmen who have qualified on the basis of the tests of the Advanced Placement Program of the College Entrance Examination Board. Scores of three, four, or five are required.

PHYSICAL EXAMINATION

Physical examinations are not required for admission to Pierpont Community & Technical College, but all Health Careers students must have a physical examination prior to entering any Health Careers program; forms should be submitted to Program Coordinators. All Early Childhood students must have a physical examination prior to entering the program; documentation of examination should be submitted to the Early Childhood Program Coordinator.

SCHEDULING CLASSES

All freshmen and transfer students who apply for admission may preregister during the spring and summer preceding fall enrollment.

At the beginning of each semester or term, all students are expected to complete registration on the days designated for this purpose. While all students are expected to register on time, late registration periods are permitted with prescribed limits as set forth in the schedule. Late registration fees are assessed in accordance with the fee schedule cited under Special Fees.

ADMISSION TO COLLEGE LEVEL ENGLISH AND MATH COURSES

As a result of freshman assessment and placement standards adopted by the State College System Board of Directors, the following requirements must be satisfied before enrolling in college level mathematics and English courses.

ENGLISH

Students may not enroll in English 1104 unless the minimum score prescribed below is earned on at least one of the following tests:

a.) A score of 18 or above on the English section of the ACT.
b.) A score of 450 or above on the verbal portion of the SAT-1.
c.) A scaled score of 38 on the writing skills test of the ASSET.
d.) A score of 71 or above on the writing skills test of the COMPASS.
e.) A scaled score of 88 on the Sentence Skills test of the College Board's ACCUPLACER Testing System.
f.) Satisfactory performance on a writing sample administered by each institution.

Students not meeting any one of the above standards must successfully complete ENGL 0097 before enrolling in ENGL 1104.

MATHEMATICS

Students may not enroll in a mathematics course unless the minimum score prescribed below is earned on at least one of the following tests:

a.) A score of 19 or above on the mathematics section of the ACT.
b.) A score of 460 or above on the quantitative portion of the SAT.
c.) A scaled score of 40 on the numerical test and 38 on the elementary algebra test of the ASSET.
d.) A scaled score of 59 on the pre-algebra test and a scaled score of 36 on the algebra test of the COMPASS.
e.) A scaled score of 85 on the arithmetic test and 84 on the elementary algebra test of the College Board's ACCUPLACER Testing System.

Students not meeting any one of the above standards must successfully complete MATH 0095 before enrolling in an introductory college credit math course. NOTE: Students may also be required to complete MATH 0093, General Math, and or MATH 0094, Pre-Algebra, before being permitted to enroll in MATH 0095.

AUDITING COURSES

Students may be permitted to attend classes as auditors if they obtain written permission from their advisor and instructors in the classes they want to audit. No student who enrolls in any class as an auditor may, in the same semester, be considered as enrolled in the class for the purpose of obtaining credit.

Auditors are required to complete the regular registration forms and pay regular fees.

SPECIAL EXAMINATIONS FOR COURSE CREDIT

Students may earn course credit by special examination. To apply for permission for such an examination, applicants must be enrolled in the College or must have completed one semester or summer session in Pierpont Community & Technical College. Applicants must first schedule an interview with the program coordinator, who will evaluate the student's background, experience, and qualifications to establish eligibility and give permission to take the examination. In order to gain college credit by special examination, students must demonstrate better than average proficiency on the examination, as determined by the examiner. Examinations will not be given for college courses in which students have previously received a grade other than "W."

Applicants must pay a fee of $22.00 per semester credit hour for each special examination. A receipt for the payment of the fee must be obtained from the Student Service Center. No money will be refunded if any examination is failed. No examination may be repeated.

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

The College offers opportunities for earning course credit by examination through the College Level Examination Program. CLEP examinations are open to all, whether enrolled at Fairmont State or not. Information about course credits, examinations available, cost of examinations, and procedures for applying for examinations is available from the Center for Workforce Education at 367-4920.

ARTICULATION POLICY

Articulation between Pierpont Community & Technical College and regional high schools and vocational-technical centers permits students to receive college credit for certain course competencies and Tech Prep programs of study completed at the secondary level. Students are permitted to enter college at their level of competency and avoid duplication of course work. Students should contact their high school or Vocational Technical Center counselor for specific information concerning the articulation process.

ACADEMIC CREDIT FOR MILITARY SERVICE

Students who have completed basic training in military service may be granted a maximum of four semester hours' credit, which may be used to satisfy General Studies physical education and/or elective requirements. It is the student's responsibility to request this credit and to verify military experience to the Registrar.

ADVANCED STANDING

Based on the high school record and performance on the ACT or SAT, the Registrar will determine eligibility for advanced standing and credit in English and foreign language as follows:

English: Students may receive three hours of college credit in ENGL 1104 and may enroll in ENGL 1108 if they present four units of high school English with no semester grade of less than a "B" and a standard score of 25 or higher on the English section of the Enhanced ACT or 610 on the English part of the recentered SAT.

Foreign Language: Students who present one or more units of high school FREN or SPAN may enroll in FREN 1102 or SPAN 1102. Students who present two or more units of high school French or Spanish may enroll in FREN 2201 or SPAN 2201.

French or Spanish minor and French major: Students electing a minor in French or Spanish or a major in French may satisfy the elementary level requirement, FREN 1101 and 1102, or SPAN 1101 and 1102, by presenting two or more units of high school French or Spanish. These hours will not be recorded as college credit but will fulfill the requirement for the first six hours of the major or minor.

THE SUMMER SESSION

Pierpont Community & Technical College offers two terms of five-week summer sessions. The requirements for admission and the character of the work offered are the same for the summer session as for the regular year.

All activities and facilities of the campus are available to students during the summer session. The student body is organized under its own leadership at the beginning of each session. A general program of social, recreational, and dramatic events is scheduled.

TELEVISED COURSES

Each semester, courses by television are offered that will satisfy degree or elective requirements. Student attendance is required at a minimum of five Saturday classes for orientation, review, and midterm and final exams.

GASTON CAPERTON CENTER OF FAIRMONT STATE

The Gaston Caperton Center of Fairmont State is a regional campus located at 501 W. Main Street in downtown Clarksburg. Clarksburg, the county seat of Harrison County, is approximately 23 miles from the main campus of Fairmont State University. The Center serves as a site for delivery of courses for students enrolled in Fairmont State University or Pierpont Community & Technical College providing students with a wide variety of course offerings. The Center is open from 8:00 a.m. until 10:00 p.m. Monday through Thursday, and 8:00 a.m. until 4:00 p.m. on Friday, during the semester.

Students can complete the Liberal Studies requirements for Bachelor of Arts and Bachelor of Science degrees, and all course requirements for the B.S. in Business Administration with an emphasis in General Business. The business common core for all baccalaureate business degrees may be completed at the Caperton Center. In addition, Associate Degrees can be completed in General Business, Accounting, General Studies, Criminal Justice and Physical Therapist Assistant. Many other course offerings allow students to make progress toward degree completion in several academic areas. Consideration is being given to increase the number of complete programs being offered at the Caperton Center.

The Center is housed in a 36,000 square foot state-of-the-art building consisting of the latest in computer connectivity, modern classrooms, computer and natural science labs, conference facilities, and a full-service library. The facility has 15 classrooms including three computer classrooms, one life-sciences lab for general biology, anatomy and physiology, etc., one physics lab for general physics, electronics and/or other technical course, and one physical therapy lab for the Physical Therapy Assistant program. In addition to one hundred computers which are utilized for direct instruction or instruction support activities, the building has a number of courtesy ports which allow students with laptop computers to connect directly into the college's network.

The facility has two large multi-purpose meeting rooms that serve as large lecture halls that seat 54 or 75 people respectively, or may be opened to accommodate 200 in auditorium seating or 125 at tables in a single room. Four small conference rooms are also available, with at least one on each floor.

The library contains up to 10,000 volumes with twenty-four computers in two labs to allow students to research internet and electronic data-bases and resources, as well as complete homework assignments and perform email functions. The library is open and staffed for the same operating hours as the facility. A reference librarian is available to assist students and faculty with research and library needs.

In addition to seating areas in the building, there are two student lounge areas, one faculty lounge, a portico seating area and an adjacent walled courtyard area with bench and wall seating.

The Center is in full compliance with handicapped accessibility, is served by an elevator to all three floors, and has restroom facilities on each floor. The Center has 171 parking spaces in three separate lots with handicapped parking near the rear entrance.

OFF-CAMPUS CLASSES

Pierpont Community & Technical College offers off-campus classes at Career Technical Centers and high schools throughout 13 counties in West Virginia. These counties include: Barbour, Braxton, Calhoun, Doddridge, Gilmer, Harrison, Lewis, Marion, Monongalia, Preston, Randolph, Taylor, and Upshur.

OFF-CAMPUS PROGRAMS

Pierpont Community & Technical College offers a variety of courses at more than 15 sites a semester in a 13-county service area through Off-Campus Programs.

The northern service area includes classes at technical centers and high schools in Barbour, Doddridge, Marion, Monongalia, Preston, Randolph and Taylor Counties. Evening classes are scheduled for traditional and adult learners with additional classes offered for high school students on-site during the day.

Three complete associate degree programs are offered in the Barbour/Randolph county area and the Monongalia/Preston county area. They are: Business Technology, Criminal Justice and Liberal Studies. Depending on the size of the site, all or many liberal studies courses for baccalaureate degrees are offered also.

The Lewis County Center of Pierpont Community & Technical College is located in the Lewis County High School and offers a full range of classes in the fall, spring and summer semesters. The Center encompasses a five-county region which includes Calhoun, Gilmer, Braxton, Upshur and Lewis. The Center serves approximately 500 students, both the traditional and non-traditional, with admission applications, academic advising/scheduling, first year student testing, financial aid, and payments.

Coordination between on-campus full-time faculty and adjunct faculty who teach off-campus courses assures the same standards of quality as those offered on campus. All off-campus classes are governed by policies and procedures in effect at Fairmont State.

PREPARATORY ART, MUSIC, AND DRAMA PROGRAMS

Art, music, and drama classes and private lessons taught by student and professional instructors are available to community, college, secondary and elementary students for an additional fee. Information may be obtained by contacting the School of Fine Arts office. College credit is not awarded for these courses.

Fairmont State University

GENERAL ADMISSION PROCEDURE

Students seeking admission to Fairmont State University must be of the age of compulsory attendance in the state of West Virginia and file an application for admission. Applications and supporting credentials must be on file at least two weeks prior to the opening of a semester or term. All credentials submitted in support of an application for admission become the property

of the University and will not be returned to the student. Any student admitted upon the basis of false credentials will be subject to immediate dismissal from the University.

Students who fail to register during the semester or term for which they have been admitted must file another application in order to gain admission at a later date. Separate applications for residence halls must be submitted to the Office of Residence Life. Any change in local address of any student at Fairmont State University must be reported to the Registrar.

The application for admission must specify the student's desired degree or program objective. Fairmont State University grants bachelor's degrees, and Pierpont Community & Technical College grants associate's degrees and administers certificate programs.

Admission to Fairmont State University does not guarantee admission to specific programs, which may be restricted due to limitations of staff, physical facilities, and space available for experiential training. The standards and procedures for admission to limited-enrollment programs are presented later in this section.

REQUIRED FORMS AND CREDENTIALS

All students applying for admission to Fairmont State University degree programs are required to complete and submit the following forms and credentials:

1.) Admission application
2.) Housing and financial aid request forms (if applicable)
3.) Official high school transcript (except transfer students having a 2.0 average and at least 30 hours of completed coursework)
4.) Official college transcripts (if student has transfer credit)
5.) Official ACT or SAT scores with writing assessment
6.) GED scores where applicable
7.) Statement of Activities of educational and work experience if the student has been out of high school six months or longer.
8.) Immunization Records (if born after January 1, 1957)

THE AMERICAN COLLEGE TEST/SCHOLASTIC APTITUDE TEST

Fairmont State University requires the American College Test (ACT) or Scholastic Aptitude Test (SAT) of all applicants. ACT scores are used to determine student placement in English and mathematics courses, for scholarships and loans, and for academic advising purposes. High school students are urged to take the test during their senior year. Financial aid applicants should take the test either during the summer prior to the beginning of the senior year, or on the October or December dates.

IMMUNIZATION REQUIREMENT

All students under the jurisdiction of the Higher Education Policy Commission who were born after January 1, 1957, are required to provide proof of immunity to measles and rubella. Students are requested to provide proof of immunity on or before the date of enrollment.

BACHELOR DEGREE PROGRAMS ADMISSION REQUIREMENTS

Admission to four-year bachelor degree programs is restricted to graduates of approved high schools who have a 2.5 high school grade point average (GPA) and a minimum composite score of 17 on the Enhanced American College Test (ACT) or 830 on the Scholastic Aptitude Test (SAT). (These scores do not include the writing assessment, which will be evaluated in addition to the previously mentioned composite scores). Exceptions to the above criteria are possible on a case-by-case basis. Applicants must also satisfy the following minimum high school unit requirements:

REQUIRED UNITS (Years)

4	English (including courses in grammar, composition, literature)
3	Social Studies (including U.S. History)
3	Mathematics (Algebra I and at least one higher unit)
3	Laboratory Science (At least two units from Coordinated and Thematic Science 10, Biology, Chemistry, Physics and other courses with a strong laboratory science orientation)

STRONGLY RECOMMENDED

2	Foreign Language

ELECTIVE UNITS

It is recommended that the remaining elective units be chosen from subjects such as computer science, fine arts, and the humanities.

Effective August 2008, students must successfully complete the following minimum academic core unit requirements (in addition to GPA and ACT requirements) prior to admission:

REQUIRED UNITS (Years) - 2008 STANDARDS

4	English (including courses in grammar, composition, and literature)
3	Social Studies (including U.S. History)
4	Mathematics (three units must be Algebra I and higher)
3	Science (all courses to be laboratory science)
1	Arts
2	Foreign Language (Two units of the same foreign language)

ADMISSION TO TEACHER EDUCATION

Admission to Teacher Education is selective. Please refer to the School of Education "Program of Study" in the catalog for requirements.

ADMISSION TO ASSOCIATE DEGREE IN NURSING

The deadline for application for the associate degree in Nursing is December 15.

The program application, $20 nonrefundable application fee, high school transcript/GED scores, ACT/ SAT scores, college transcript (if applicable) and any other required information or testing must be on file by the deadline.

The credentials are collected by the Office of Admissions and are submitted to the selection committee for consideration. All applicants are notified by letter concerning their admission

status to the program.

Selection criteria are based primarily on academic background. Strong math and science background is highly recommended. Students with a college cumulative grade point average of less than 2.0 must remedy this situation before they can be eligible for admission to the program. Students who have completed a GED must show evidence of successful completion of required prerequisite courses.

ADMISSION TO COLLEGE-LEVEL ENGLISH AND MATH COURSES

As a result of freshman assessment and placement standards adopted by the Higher Education Policy Commission, the following requirements must be satisfied before enrolling in college level mathematics and English courses.

ENGLISH

Students may not enroll in English 1104 unless the minimum score prescribed below is earned on at least one of the following tests:

a.) A score of 18 or above on the English section of the ACT.
b.) A score of 450 or above on the verbal portion of the SAT-1.
c.) A scaled score of 38 on the writing skills test of the ASSET.
d.) A score of 71 or above on the writing skills test of the COMPASS.
e.) A scaled score of 88 on the Sentence Skills test of the College Board's ACCUPLACER Testing System.
f.) Satisfactory performance on a writing sample administered by each institution.

Students not meeting the above standards must successfully complete English 0097.

MATHEMATICS

Students may not enroll in a mathematics course unless the minimum score prescribed below is earned on at least one of the following tests:

a.) A score of 19 or above on the mathematics section of the ACT.
b.) A score of 460 or above on the quantitative portion of the SAT.
c.) A scaled score of 40 on the numerical test and 38 on the elementary algebra test of the ASSET.
d.) A scaled score of 59 on the pre-algebra test and a scaled score of 36 on the algebra test of the COMPASS.
e.) A scaled score of 85 on the arithmetic test and 84 on the elementary algebra test of the College Board's ACCUPLACER Testing System.

Students not meeting the above standard must successfully complete MATH 0095.

COMPASS TESTS AND ACADEMIC SKILLS DEVELOPMENT

If a student's ACT/SAT scores fall below the following cutoff, s/he must take a COMPASS placement test, and may need to enroll in the appropriate Academic Skills classes described below.

ACT CUTOFF SCORES:

17 on the Reading test
18 on the English test
19 on the Mathematics test

SAT CUTOFF SCORES:

450 verbal
460 quantitative

COMPASS tests, designed by ACT, are designed to accurately measure a student's academic capabilities. These tests are taken on the computer and are multiple-choice. They are not timed. The student does not need any computer experience. For more information on COMPASS tests, contact Nancy Parks, Assessment Coordinator, at (304) 367-4253 or nparks@fairmontstate.edu.

ACADEMIC SKILLS COURSES

ENGL 0092, Basic Reading and Study Skills
ENGL 0097, Composition Skills
MATH 0093, General Math
MATH 0094, Pre-Algebra
MATH 0095, Elementary Algebra

ADVANCED STANDING

Based on the high school record and performance on the ACT or SAT, the Registrar will determine eligibility for advanced standing and credit in English and foreign language as follows:

English: Students may receive three hours of college credit in ENGL 1104 and may enroll in ENGL 1108 if they present four units of high school English with no semester grade of less than a "B" and a standard score of 25 or higher on the English section of the Enhanced ACT or 610 on the English part of the recentered SAT.

Foreign Language: Students who present one or more units of high school French or Spanish may enroll in FREN 1102 or SPAN 1102. Students who present two or more units of high school French or Spanish may enroll in FREN 2201 or SPAN 2201.

French or Spanish minor and French major: Students electing a minor in French or Spanish or a major in French may satisfy the elementary level requirement, FREN 1101 and 1102, or SPAN 1101 and 1102, by presenting two or more units of high school French or Spanish. These hours will not be recorded as college credit but will fulfill the requirement for the first six hours of the major or minor.

ADVANCED PLACEMENT EXAMINATION (AP)

Fairmont State University recognizes certain examinations of the College Board Advanced Placement Program. Students who participate in the AP program and wish to have their scores evaluated for credit should have their scores sent to Fairmont

State University. The AP examinations are prepared by the College Board, and the papers are graded by readers of the Educational Testing Service, Princeton, NJ 08540. Students cannot receive credit for a score below 3 on any exam. Students who do receive credit will be assigned the grade of CR, which is not calculated into the GPA.

Examination	Minimum Score	Credit Hours	Course Equivalent
Art (Studio)			
Studio Art - Drawing Portfolio	3	3	Elective
Studio Art - 2 Design Portfolio	3	3	Elective
Studio Art - 3 Design Portfolio	3	3	Elective
Art History	3	3	Elective
Biology	3	8	BIOL Electives
Chemistry	3	8	CHEM 1101-1102
Classics			
Latin: Virgil	3	3	Not Offered at FSU
Latin Literature	3	3	Not Offered at FSU
Computer Science			
Computer Science A	3	3	Elective
Computer Science AB	3	6	Elective
(6 units maximum for both tests)			
Economics			
Macroeconomics	3	3	ECON 2201
Microeconomics	3	3	ECON 2202
English			
English Lang. & Composition	3	3	ENGL 1104
English Composition & Lit	3	3	ENGL 2230
(9 units maximum for both tests)			
Environmental Science	3	4	Elective
Foreign Language			
French Language	3	6	FREN 1101, 1102
French Literature	3	6	FREN Elective
German Language	3	6	Elective
Spanish Language	3	6	SPAN 1101, 1102
Spanish Literature	3	6	SPAN Elective
Geography			
Human Geography	3	3	GEOG 2210
Government and Politics			
American	3	3	POLI 1103
Comparative	3	3	POLI 2200
History			
American	3	6	HIST 1107, 1108
European	3	6	HIST Elective
World	3	6	HIST 2211, 2212
Mathematics			
Calculus AB	3	4	MATH 1190
Calculus BC	3	4	MATH 1190
Statistics	3	3	PSYC 2240 or BUSN 3310 or SOCI 2240 or POLI 2240 or MATH 1113 or PSYC 2240
Music			
Theory	3	3	MUSI 1108
Physics			
Physics B	3	4	PHYS 1101
Physics B	4	8	PHYS 1101-1102
Physics C Mechanics	3	5	PHYS 1105
Physics Electricity & Magnetism	3	5	PHYS 1106
Psychology			
Introductory Psychology	3	3	PSYC 1101

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

The College Level Examination Program (CLEP) provides students with the opportunity to demonstrate college-level achievement through a program of exams in undergraduate college courses. Students can reduce their costs in time and money by successfully completing CLEP tests for credit. The CLEP exams are prepared by the College Board and administered by Pierpont Community & Technical College. Students must achieve a minimum score of 50 to receive college credit. For additional information, contact the Center for Workforce Education at 367-4920.

CLEP EXAMINATIONS ACCEPTED BY FSU

CLEP Examination	FSU Course	Credit
Business		
Prin. of Macroeconomics	ECON 2201	3
Prin. of Microeconomics	ECON 2202	3
Prin. of Marketing	MKTG 2204	3
Prin. of Accounting	ACCT 2201/2202	6
Introductory Business Law	BUSN 3306	3
Prin. of Management	MGMT 2209	3
Chemistry		
Chemistry	CHEM 1101/1102	8
Composition/Humanities		
Eng. Composition w/essay	ENGL 1104	3
Humanities	ART 1120	3
Sociology		
Introduction to Sociology	SOCY 1110	3
History		
History of U.S. II	HIST 1108	3
Western Civilization I	HIST 2211	3
Western Civilization II	HIST 2212	3
Language		
French	FREN 1101/1102	6
Spanish	SPAN 1101/1102	6
Math		
College Algebra	MATH 1112	3
College Algebra – Trig	MATH 1112/1115	3
College Math	MATH 1107	3
Political Science		
American Government	POLI 1103	3
Psychology		
Introduction to Psychology	PSYC 1101	3

SPECIAL ADMISSION FOR HIGH SCHOOL NON-GRADUATES

Students who are not high school graduates may be admitted to Fairmont State University by passing the General Educational Development (GED) Test and scoring at least a composite score of 17 on the ACT or 830 on the SAT. They must be either

1.) veterans,
2.) over 19 years of age, or
3.) past the age they would have been at the completion of a traditional high school education. Such persons must have been out of school more than one year preceding application for admission.

GED results must be sent directly from the Testing Center to the Office of Admissions.

INTERNATIONAL STUDENTS

Admission file must be complete six weeks prior to the start of the semester. Upon acceptance, information will be entered into SEVIS and an I-20 will be issued for application of F1 Visa. Required application forms and credentials include:

1.) Application for admission
2.) A minimum TOEFL (Test of English as a Foreign Language) score of 500 paper or 173 computer
3.) Proof of financial support, submitted at least three months before the semester begins
4.) Housing (if applicable)
5.) Official certified course-by-course English translation of high school transcripts
6.) Official certified course by course English translation of college transcript (if applicable);
7.) ACT (American College Test) or SAT (Scholastic Aptitude Test) scores
8.) Health certificate
9.) A brief résumé of educational and work experience if the student has been out of high school or college for more than a year

TRANSFER STUDENTS

Any applicant for admission to Fairmont State University who has attended another collegiate institution will be classified as a transfer student. Every effort will be made to allow credit earned at other accredited colleges and universities to count towards a degree at FSU. Transfer students must meet the previously stated admission requirements of Fairmont State University. They must provide evidence of good standing at the institution last attended, and must have maintained a minimum 2.0 GPA.

Credits and grades earned at any public institution governed by the Higher Education Policy Commission shall be transferable to Fairmont State University.

Students transferring fewer than 30 hours must provide an official copy of the high school transcript and ACT or SAT scores, along with a copy of the college transcript. These students must also meet admission requirements of the degree or certificate program into which they are transferring.

TRANSFERRING CORE COURSEWORK

Students who transfer from one state college or university to another may transfer core coursework that will count toward fulfillment of liberal studies requirements at the receiving institutions.

A student may transfer up to 32 credit hours of undergraduate coursework in the areas of English composition, communications and literature, mathematics, natural science, and social science as liberal studies credits.

The following is a list of Liberal Studies Requirements that may be fulfilled by comparable coursework at another institution. All other Liberal Studies Requirements must be completed at FSU.

English Composition - 6 hours

ENGL	1104	Written English I	3
ENGL	1108	Written English II	3

Communication and Literature - 6 hours

SPCH	1100	Introduction to Speech Communication	3
ENGL	2220	Literature of the Western World I	3
ENGL	2221	Literature of the Western World II	3
ENGL	2230	Introduction to Literature I	3
ENGL	2231	Introduction to Literature II	3
ENGL	3391	The Short Story	3

Mathematics - 3-4 hours

MATH	1107	Fundamental Concepts of Mathematics	3
MATH	1112	College Algebra	3
MATH	1115	Trigonometry and Elementary Functions	4
MATH	1190	Calculus I	4

Natural Science - 8-10 hours

BIOL	1105	Biological Principles I	4
BIOL	1106	Biological Principles II	4
CHEM	1101	General Chemistry	4
CHEM	1102	General Chemistry	4
CHEM	1105	Chemical Principles	5
CHEM	1106	Chemical Principles	5
PHYS	1101	Introduction to Physics	4
PHYS	1102	Introduction to Physics	4
PHYS	1105	Principles of Physics	4
PHYS	1106	Principles of Physics	4
GEOL	1101	General Geology	4
GEOL	1102	General Geology	4

Social Science - 9 hours

ECON	2200	Economics	3
ECON	2201	Economic Principles	3
HIST	1107	U.S. History I	3
HIST	1108	U.S. History II	3
HIST	2211	History of Civilization I	3
HIST	2212	History of Civilization II	3
HIST	2213	History of Civilization III	3
POLI	1103	American Government	3
POLI	2200	Introduction to Political Science	3
PSYC	1101	Introduction to Psychology	3
SOCY	1110	Introduction to Sociology	3
SOCY	1111	Introduction to Anthropology	3

CONSORTIUM AGREEMENT

The Presidents of Glenville State College, Pierpont Community & Technical College, Fairmont State University and West Virginia Northern Community College have entered into a collaborative consortium agreement for our students. This agreement acts as a more direct process for transient students at the four institutions, allowing for enrollment to occur at two institutions at the same time. New students need to contact the Office of Admissions for information; current FSU students should contact the Registrar's Office.

CREDIT FROM A JUNIOR OR COMMUNITY COLLEGE

The maximum credit accepted from a Junior or Community College accredited by the North Central Association of Colleges and Schools or other regional accrediting association will not exceed 72 semester hours.

SPECIAL EXAMINATIONS FOR COURSE CREDIT

Students may earn course credit by special examination. To apply for permission for such an examination, applicants must be enrolled in the University or must have completed one semester or summer session in Fairmont State University. Applicants must first schedule an interview with the College or School Dean or department representative, who will evaluate the student's background, experience, and qualifications to establish eligibility and give permission to take the examination. In order to gain college credit by special examination, students must demonstrate better than average proficiency on the examination, as determined by the examiner. Examinations will not be given for college courses in which students have previously received a grade other than "W."

Applicants must pay a fee of $22.00 per semester credit hour for each special examination. A receipt for the payment of the fee must be obtained from the Student Service Center. No money will be refunded if any examination is failed. No examination may be repeated.

ARTICULATION POLICY

Articulation between Pierpont Community & Technical College and regional high schools and vocational-technical centers permits students to receive college credit for certain course competencies and Tech Prep programs of study completed at the secondary level. Students are permitted to enter college at their level of competency and avoid duplication of course work. Students should contact the Office of the Community & Technical College or their vocational-technical center for specific information concerning the articulation process.

Expenses and Financial Aid

PAYMENT OF TUITION AND FEES

The State Codes of West Virginia permit the Colleges and Universities to enter into a deferred payment contract with its otherwise qualifying students for tuition only. Under this plan the student is required to pay a minimum of 60 percent during the registration period, with the remaining 40 percent being due and payable before the end of the sixth week. There is a service charge equivalent to 18 percent APR on the unpaid balance. Ten days after the due date, a late payment is charged in the amount of five percent or $5.00, whichever is less, and a hold is placed on all records for noncompliance. The registration process is not complete until all fees, plus interest and/or any penalties, have been paid in full. Fees can be paid with Visa, MasterCard and American Express. Students receiving financial aid must apply 100 percent of their aid prior to paying 60 percent of the balance due.

Registration is not completed until payment of tuition, residence hall rent, board, and fees has cleared. A late payment charge of $25 will be assessed after registration day; a $10 charge will be assessed on each check returned for "insufficient funds" unless the student can obtain an admission of error on the part of the bank. The Business Office shall declare the fees unpaid and registration canceled until the check has been redeemed and the additional charge paid. Student records will not be released by the Registrar's Office for any student who has a delinquent financial obligation to Fairmont State.

All outstanding amounts resulting from nonpayment of tuition and fees are the responsibility of the student. Withdrawal from school, officially or unofficially, will not cancel any financial obligation already incurred. Additionally, failure to pay all financial obligations may result in debts being turned over to a collection agency. Collection costs, including attorney fees and other charges necessary for the collection of any amount due, will be added to the student's account balance.

NOTE: The term "resident" refers to classification for fee purposes only. See end of this section for resident classifications.

All fees subject to change. Please see Fairmont State homepage for most current tuition and fee information.

Tuition and Fees

PIERPONT COMMUNITY & TECHNICAL COLLEGE TUITION & FEES PER SEMESTER

	On Campus WV Resident	On Campus Non-Resident	Off Campus WV Resident	Off Campus Non-Resident
12 hours	$1,639	$3,649	$1,440	$3,450
11 hours	1,539	3,387	1,341	3,189
10 hours	1,400	3,080	1,220	2,900
9 hours	1,260	2,772	1,098	2,610
8 hours	1,120	2,464	976	2,320
7 hours	980	2,156	854	2,030
6 hours	840	1,848	732	1,740
5 hours	700	1,540	610	1,450
4 hours	560	1,232	488	1,160
3 hours	420	924	366	870
2 hours	280	616	244	580
1 hour	140	308	122	290

FAIRMONT STATE UNIVERSITY TUITION & FEES PER SEMESTER

	On Campus WV Resident	On Campus Non-Resident	Off Campus WV Resident	Off Campus Non-Resident
12 hours	$2,109	$4,404	$1,880	$4,175
11 hours	1,946	4,047	1,748	3,849
10 hours	1,770	3,680	1,590	3,500
9 hours	1,593	3,312	1,431	3,150
8 hours	1,416	2,944	1,272	2,800
7 hours	1,239	2,576	1,113	2,450
6 hours	1,062	2,208	954	2,100
5 hours	885	1,840	795	1,750
4 hours	708	1,472	636	1,400
3 hours	531	1,104	477	1,050
2 hours	354	736	318	700
1 hour	177	368	159	350

SPECIAL FEES (NON-REFUNDABLE) – APPLICABLE TO ALL STUDENTS

New Student Orientation Fee	$120.00
Graduation Fee (inc. cap and gown)	$50.00
Course Fee (per credit hour)	$4.00

OTHER FEES

Late Application for Graduation	$50.00
Multiple Transcript Fee (first transcript is free)	$5.00
Priority Transcript Fee	$9.00
Special Examinations for course credit (per credit hour)	$22.00
Late Registration	$25.00
Aviation Technology Fee (per credit hour)	$35.00

REFUND POLICY FOR TUITION AND FEES

A student who withdraws from the institution may arrange for a refund of fees, excluding special fees, in accordance with the following schedule. Refunds are determined from the first day of the school term, which begins officially with Orientation Week. The student's official withdrawal date is certified by the

Registrar.

Students who have paid in advance and cancel schedules prior to registration day will receive full refunds.

Students who pay fees on fall and spring registration days will be allowed to drop classes if doing so will result in a reduction of tuition. Classes may not be added or changed at this time.

SEMESTER TERMS

Withdrawal During first and second weeks (beginning with Registration Day).....90% refund
During third and fourth weeks.....70%
During fifth and sixth weeks 50%
Beginning with seventh week .....No refund

SUMMER TERMS

Registration Day through the first three days of Classes.....90% refund
Fourth through sixth day of classes.....70%
Seventh through ninth day of classes 50%
Beginning with tenth day of classes.....No refund

Room and Board

Regular term payment of room and board and damage deposit must be paid on or before registration day. Summer term payment of room, board, and a damage deposit for a summer term must be paid in full by registration day. Applicants for residence hall reservations must pay a deposit at the time the application is filed. (This amount is subject to change at any time). The deposit will be refunded at checkout pending any necessary damage repairs. All applications must be filed with the Office of Residence Life. All unmarried freshman and sophomore students are required to live on campus.

Written notice of cancellation of room reservations must be received by the Residence Life Office by May 15. Otherwise the total amount of the deposit will be forfeited. (Exception: Should the applicant be denied admission to Fairmont State, a full refund will be made without regard to dates.) Students paying on-campus tuition and fees are entitled to participate in all college activities and attend athletic events.

RESIDENCE HALLS 2005-2006 RATES

Double Occupancy (Morrow, Pence, Prichard) $1,407.00
Bryant Single.....$1,880.00
Bryant Double.....$1,596.00

MOVE-IN COSTS

Damage Deposit.....$150.00
Key Deposit.....$2 per key
Social Fee.....$18
Meal plan.....varies (see below)

APARTMENTS

1 Bedroom (unfurnished).....$445.00
2 Bedrooms (unfurnished).....$620.00
2 Bedrooms (furnished) $670.00
3 Bedrooms (furnished) $1005.00

Move-in costs
First & last month's rent .....varies
Damage deposit.....one month's rent plus $25.00 per person

FOOD SERVICE

All residents of Morrow, Prichard, Pence, and Bryant Halls are required to purchase a meal plan for use in the cafeteria or snack bar located in the Student Activity Center. Campus Dining Services offers several meal plans.

A. *Falcon 19 Plan*
(19 meals, 7 days per week) ..... $1,430 per semester
B. *Falcon 15 Plan*
(15 meals, 5 days per week) ..... $1,300 per semester

Commuter dining plans and other options are available from Aladdin Food Service at (304) 367-4119.

Financial Assistance

Financial aid in the form of scholarships, grants, loans, and employment is available to students who need assistance in meeting their higher education expenses. All funds are administered by the Financial Aid Office in compliance with institutional, state, and federal guidelines.

NEED-BASED AID

1. Fairmont State's primary purpose in awarding financial aid is to assist those students who could not attend without such aid.
2. It is the position of the institution that parents have the first obligation to provide for the education of their children. The second obligation falls upon the students (and their spouses where applicable) to contribute to their own education from personal earnings and assets, including appropriate borrowing against future earnings.
3. Within its available resources, Fairmont State attempts to meet the financial needs of its students. The total financial aid awarded to a student shall not exceed the institutional budget or the student's need, as appropriate.

SCHOLARSHIP AID

It is the intent of Fairmont State, as an institution of higher learning, to foster the highest degree of scholarship among its students. Fairmont State actively recruits students who have excellent academic records and recognizes and rewards those who continue to excel.

The objective of the scholarship program is to promote the recruitment and retention of a diverse student body with special talents. To accomplish this objective, a variety of merit scholarships have been developed with special criteria (ex.: Falcon Scholarships, program-specific scholarships, international student scholarships, athletic scholarships, etc.)

Fairmont State is ultimately responsible for final approval of scholarship programs and related policies and procedures. Further, various offices or committees are responsible for segments of the scholarship programs. The Fairmont State Foundation, Inc., through the auspices of the Fairmont State Foundation's Scholarship Committee, collaborates with the Office of Admissions and Financial Aid Office to explore new areas of scholarship development and expansion, and assist those interested in establishing new merit-based scholarships or enhancing currently established scholarship programs for Fairmont State

students. New scholarship programs are reviewed for consistency with institutional recruitment and retention goals and the scholarship philosophy statement, and must be reviewed and endorsed by the Faculty Senate Financial Aid Committee and approved by the President.

Fairmont State's Financial Aid Office also administers scholarship aid delivery for a wide range of externally funded and managed merit- and need-based scholarships received by Fairmont State students.

SOURCES OF FINANCIAL AID

The Financial Aid/Scholarship Brochure details all sources of financial aid offered by Fairmont State and is available on the homepage at http://fairmontstate.edu/admissions/undergraduate/financialaid/default.asp

DEFINITION OF AN ACADEMIC YEAR

For Pell Grant and Direct Loan processing, the academic year at Fairmont State begins with the fall, continues with the spring, and concludes with the summer term.

PROCEDURES FOR OBTAINING FINANCIAL AID

1. Students must complete and submit an application for admission to the Fairmont State Office of Admissions (new students only).
2. For full consideration of aid based on need, students must complete and submit the Free Application for Federal Student Aid (FAFSA) to the federal processing center by March 1. The FAFSA must be submitted annually.
3. For consideration of eligibility for academic scholarships, students must apply for admission to Fairmont State prior to February 1 and submit a scholarship application by February 1.
4. Students interested in aid for summer must complete a separate application, which is made available in March.

SATISFACTORY ACADEMIC PROGRESS FOR FEDERAL FINANCIAL AID

To receive funds administered by the Financial Aid Office at Fairmont State, students must be making measurable academic progress toward completion of an eligible degree or certification. Federal regulations require evaluation of both quantitative and qualitative academic progress.

Effective fall 2003, the following guidelines will apply:

a) Required Cumulative Grade Point Average:
   00—32 total credit hours.....1.5
   33—64 total credit hours.....1.75
   65—above total credit hours.....2.0

b) If the student's cumulative GPA falls below the minimum standard at the end of a grading period, the student receives a "warning semester" during which aid continues. At the conclusion of the warning semester, the student's cumulative GPA must meet the appropriate minimum. If it does not, the student will no longer receive financial assistance.

c) All students enrolling at Fairmont State for the first time (including transfers) will be considered to be meeting academic progress in the first semester of enrollment. However, in order to continue receiving financial aid, recipients must meet all requirements at the end of the first grading period at Fairmont State or student will receive a "warning semester."

d) In addition to maintaining the overall GPA, a student must be making reasonable academic progress towards a degree or certificate. A student must pass at least 67% of all hours attempted each semester at Fairmont State (this calculation will be rounded to the closest whole number). This applies to the graduate programs as well. A student who does not pass 67% of all hours attempted in a semester will continue to receive financial aid during a "warning semester" but MUST pass 67% of all hours attempted in that semester of enrollment (summer enrollment is not considered in this assessment).

e) Students must complete their program of study within 1.5x of the number of hours required for the degree objective.

   For a baccalaureate program of 128 hours, students must complete within 192 attempted hours.
   For an associate program of 64 hours, students must complete within 96 attempted hours.
   For a certificate program of 32 hours, students must complete within 48 attempted hours.
   For a graduate program of 36 hours, students must complete within 54 attempted hours.

f) Postgraduate, second undergraduate degree and teacher certification students must complete degree/certification programs within 60 hours of undergraduate coursework.

g) Financial aid recipients/applicants whose aid has been cancelled or denied as a result of failure to meet the required standards may be reinstated under the following conditions:
   1. student's overall GPA meets minimum;
   2. student earns 67% of attempted credits during a semester;
   3. appeal is granted by Financial Aid Office or Financial Aid Appeals Committee.

Students who wish to appeal their loss of aid may do so with the Financial Aid Office. Forms are available upon request. Appeals may be made under hardship based on:

a) death of an immediate family member,
b) personal injury or illness of the student, or
c) special circumstances as determined by the Financial Aid Office.

Documentation such as death certificates or notice, physician's statement, academic degree plans, or other documents deemed necessary by the Financial Aid Office is required. If the appeal is denied by the Financial Aid Office, a student may request a review by the Financial Aid Appeals Committee. Fairmont State's Faculty Senate/Assembly appoints this committee in accordance with standard committee procedures. The decision of the Financial Aid Appeals Committee is final.

ACADEMIC FORGIVENESS & FINANCIAL AID

Candidates for academic forgiveness may receive financial assistance during the readmission semester. Candidates who are part-time must take a minimum of six credit hours in order to receive aid and must maintain minimum 2.0 GPA for continued aid. If the cumulative GPA during the readmission semester is less than 2.0, there will be no further financial assistance.

Candidates must have a signed, written request on file with the Registrar and with the Director of Financial Aid and Scholarships in order for financial assistance to be released.

FINANCIAL AID REFUND/REPAYMENT POLICY

The Financial Aid Office is required by federal statute to recalculate federal financial aid eligibility for students who withdraw, drop out, are dismissed, or take a leave of absence prior to completing 60% of a payment period or term. The federal Title IV financial aid programs must be recalculated in these situations.

If a student leaves the institution prior to completing 60% of a payment period or term, the financial aid office recalculates eligibility for Title IV funds. Recalculation is based on the percentage of earned aid using the following Federal Return of Title IV funds formula:

Percentage of payment period or term completed = the number of days completed up to the withdrawal date divided by the total days in the payment period or term. (Any break of five days or more is not counted as part of the days in the term.) This percentage is also the percentage of earned aid.

Funds are returned to the appropriate federal program based on the percentage of unearned aid using the following formula: Aid to be returned = (100% of the aid that could be disbursed minus the percentage of earned aid) multiplied by the total amount of aid that could have been disbursed during the payment period or term.

If a student earned less aid than was disbursed, the institution would be required to return a portion of the funds and the student would be required to return a portion of the funds. Keep in mind that when Title IV funds are returned, the student borrower may owe a debit balance to the institution.

If a student earned more aid than was disbursed to him/her, the institution would owe the student a post-withdrawal disbursement which must be paid within 120 days of the student's withdrawal.

The institution must return the amount of Title IV funds for which it is responsible no later than 30 days after the date of the determination of the date of the student's withdrawal.

Refunds are allocated in the following order:

- Unsubsidized Federal Stafford Loans
- Subsidized Federal Stafford Loans
- Unsubsidized Direct Stafford Loans (other than PLUS loans)
- Subsidized Direct Stafford Loans
- Federal Perkins Loans
- Federal Parent (PLUS) Loans
- Direct PLUS Loans
- Federal Pell Grants for which a Return of funds is required
- Federal Supplemental Opportunity Grants for which a Return of funds is required
- Other assistance under this Title for which a Return of funds is required (e.g., LEAP)

Please keep in mind this repayment policy is in addition to the institution's refund policy. A student who withdraws from school could owe federal financial aid as well as repayment back to the West Virginia Higher Education Grant Program, Promise Scholarship Program and/or Fairmont State.

Veterans' Policies

The following policies and procedures will be observed by Fairmont State for the purpose of determining satisfactory progress for all students receiving veterans' benefits. The Veterans Administration will be notified of any veteran who is not maintaining satisfactory progress.

FAIRMONT STATE PROCEDURE FOR MILITARY DEPLOYMENT

If you are called to active duty in the military while enrolled at Fairmont State, you will be designated as being on a "Military Leave of Absence." If you return to Fairmont State immediately following your deployment, you will not be required to reapply for admission to Fairmont State. The following policies and procedures listed below are designed to make your transition to active duty and return to Fairmont State as convenient as possible. Please read the information below and review your choice of options. If you receive any form of financial assistance, it is imperative that you meet with the Financial Aid Office and Business Office. You must provide the Business Office with a copy of your Deployment Papers no matter what option you select.

Option 1

When called to active duty during the academic semester at Fairmont State, you may withdraw completely from the semester and receive a full tuition refund. You will also receive a prorated refund for campus housing, meal plan, and parking. Upon consultation with the Financial Aid Office and Business Office, your transcript for the semester may show enrolled with "W's" or you may be completely deleted from that semester.

Option 2

You may contact your individual instructors to determine if you have completed enough work for the semester to receive an incomplete or a final grade for the course. The decision rests solely with each faculty member. You should have completed at least three-fourths of the semester before a faculty awards a final grade for a course. If you wish to pursue this option, you must have each faculty member sign below to indicate that they will give you an incomplete or final grade for the course. Upon return from active duty, you should re-enroll at Fairmont State as soon as possible. Once re-enrolled, you will have one year to make up an incomplete. At the end of the one-year period, the instructor must submit a final grade. If no change is made by the instructor, the grade "I" will be changed to an "F." You may also officially withdraw from specific courses that you do not wish to complete. You will receive a prorated refund based upon the number of credit hours you retain. Upon consultation with the Financial Aid Office and Business Office, your transcript for the semester may show "W's" for courses in which you officially withdraw or you may be completely deleted from those courses.

PROBATION OR SUSPENSION

The Veterans Administration will be notified immediately at the end of the semester if a student receiving veterans' benefits is either suspended or placed on academic probation by Fairmont State. The Office of the Associate Provost for Academic Affairs supplies the Veterans Coordinator with a list of students suspended or placed on academic probation. This list will serve as the basis for notification to the Veterans Administration.

CLASS ATTENDANCE

Individual class attendance by all students receiving veterans' benefits will be maintained and the Veterans Administration will

be notified immediately when a student's absence from class is interfering with satisfactory progress in that class.

If a student receiving veterans' benefits withdraws from Fairmont State or an individual class and the Veterans Coordinator has no prior notice of irregular class attendance, the official withdrawal date on the withdrawal form completed in the Registrar's Office will be assumed as the last date of class attendance.

FINAL GRADE FOR ALL COURSES ATTEMPTED

The final grade policy for all attempted courses applies to all students at Fairmont State, including those receiving veterans' benefits.

MIDTERM REVIEW

The Veterans Coordinator will review the midterm grade report for all students receiving veterans' benefits and the Veterans Administration will be notified of any irregularities or indication of lack of progress on the midterm grade report.

SUMMARY

As indicated above, students receiving veterans' benefits are subject to all institutional policies of grading, attendance, and withdrawal. It is the responsibility of the Fairmont State Veterans Coordinator to administer the procedures listed above and to notify the Veterans Administration, in every instance, indicating lack of satisfactory progress by the student receiving veterans' benefits. There are no separate policies of attendance, withdrawal, or grade average calculation for students receiving veterans' benefits. Evidence of unsatisfactory progress during a semester may result in loss of benefits back to the point at which satisfactory progress ceased (i.e., irregular withdrawal from class). It is the veteran's responsibility to immediately notify the Veterans Coordinator of any changes in their enrollment status.

Resident Classifications

GENERAL

Students enrolling in a West Virginia public institution of higher education shall be classified as resident or nonresident for admission, tuition and fee purposes by the institutional officer designated by the President. The decision shall be based upon information furnished by the student and all other relevant information. The designated officer is authorized to require such written documents, affidavits, verifications, or other evidence as are deemed necessary to establish the domicile of a student. The burden of establishing residency for tuition and fee purposes is upon the student.

If there is a question as to residence, the matter must be brought to the attention of the designated officer and acted upon at least two weeks prior to registration and payment of tuition and fees. Students found to have made false or misleading statements concerning their residence shall be subject to disciplinary action and will be charged the nonresident fees for each session therefore attended.

RESIDENCE DETERMINED BY DOMICILE

Domicile within the State means adoption of the State as a fixed permanent home and involves personal presence within the State with no intent on the part of the person to return to another state or country. West Virginia domicile may be established upon the completion of at least 12 months of continued residence within the State prior to the date of registration, provided that such residence is not primarily for the purpose of attendance at any institution of learning in West Virginia.

Establishment of West Virginia domicile with less than 12 months' residence prior to the date of registration must be supported by proof of positive and unequivocal action, including but not limited to the purchase of a West Virginia home, full-time employment within the state, paying West Virginia property tax, filing West Virginia income tax returns, registering to vote in West Virginia and the actual exercise of such right, registering of motor vehicles in West Virginia, and/or possessing a valid West Virginia driver's license. Additional items of lesser importance include transferring or establishing local church membership, involvement in local community activities, affiliation with local social, civic, fraternal or service organizations, and various other acts which may give evidence of intent to remain indefinitely within the State. Proof of a number of these actions shall be considered only as evidence which may be used in determining whether or not a domicile has been established.

MINORS

Minors are defined by the West Virginia Code §2-2-10 as persons under 18 years of age. The residence of minors shall follow that of the parents at all times, except in extremely rare cases where emancipation can be proved beyond question. The residence of the father, or the residence of the mother if the father is deceased, is the residence of unmarried and unemancipated minors. If the father and the mother have separate places of residence, minors take the residence of the parent with whom they live or to whom they have been assigned by court order. The parents of minors will be considered residents of West Virginia if their domicile is within the State.

Minor students who are properly admitted to an institution as resident students shall retain that classification as long as they enroll each successive semester.

EMANCIPATED MINORS

Emancipated minors may be considered as adults in determining residence, provided satisfactory evidence is presented that neither of their parents, if living, contributes to their support nor claims them as dependents for federal or State income tax purposes. Emancipated minors assume all of the responsibilities of adults to establish residence for tuition and fee purposes. Proof must be provided that emancipation was not achieved principally for the purpose of establishing residence for attendance at an institution of higher education.

STUDENTS EIGHTEEN YEARS OF AGE OR OVER

Students 18 years of age or over may be classified as residents if (1) the parents were domiciled in the State at the time the students reached majority and such students have not acquired a domicile in another state, or (2) while adults, students have established a bona fide domicile in the State of West Virginia. Bona fide domicile in West Virginia means that students must not be in the State primarily to attend an educational institution and they must be in the State for purposes other than to attempt to qualify for resident status.

Nonresident students who reach the age of 18 years while students at any educational institution in West Virginia do not by virtue of such fact alone attain residence in this state for admission or tuition and fee payment purposes.

Students who are properly classified as residents at the time they reach the age of 18 shall continue to be classified as residents as long as they enroll each successive semester and do not establish a domicile, or legal residence, in another state.

STATE RESIDENTS 65 YEARS OF AGE OR OLDER

Residents of West Virginia who are at least 65 years of age may attend class for credit or no credit if space is available. Eligibility will be determined based on appropriate documents reflecting age and residency. Participants will be admitted according to the process for "Special Students" outlined in Fairmont State's admissions policies. Students may register anytime during or after the preregistration period designated for "All Other Students" and through the Regular and Late Registration periods. Appropriate dates and times will be published in the Schedule of Classes for each term. Participants may register for either on or off-campus courses.

Eligible participants may elect one of two options for enrolling at Fairmont State. Participants must identify themselves and choose an option at the time of registration.

No Credit Option: Eligible participants will be assessed fifty dollars ($50) per course plus applicable fees (i.e. technology, laboratory, parking permits) when appropriate.

Credit Option: Participants electing to earn college credit will be granted a waiver of fifty percent (50%) of the normal tuition and fees for courses. Technology, laboratory, parking and other special fees will be charged at the regular student rate.

CHANGE OF RESIDENCE

Adult students who have been classified as out-of-state residents and who seek resident status in West Virginia must prove conclusively that they have established domicile in West Virginia with the intention of making their permanent home in this state. The intent to remain indefinitely in West Virginia is evidenced not only by persons' statements but also by their actions. The designated institutional officer shall consider actions including but not limited to those described above in Section Two, "Residence Determined by Domicile." Proof of a number of these actions shall be considered only as evidence which may be used in determining whether or not a domicile has been established. Factors militating against a change in residence classification may include such considerations as the fact that students are not self-supporting, that they are carried as dependents on their parents' federal or state income tax returns or their parents' health insurance policy, or that they customarily do not remain in the State when school is not in session.

Students may get the necessary paperwork for a change of residence from the Registrar's Office.

MILITARY

Individuals who are on active military duty or employees of the federal government may be classified as residents for the purpose of payment of tuition and fees, provided that they established a domicile in West Virginia prior to entrance into federal service, entered the federal service from West Virginia, and have at no time while in federal service claimed or established a domicile in another state. Sworn statements attesting to these conditions may be required. The spouse and dependent children of such individuals shall also be classified as residents of the State of West Virginia for tuition and fee purposes. Persons assigned to full-time active military service and residing in West Virginia may be classified as instate residents for tuition and fee purposes.

ALIENS

Aliens in the United States on a resident visa, or those who have filed a petition for naturalization in the naturalization court and who have established a bona fide domicile in West Virginia, may be eligible for resident classification provided they are in the State for purposes other than to attempt to qualify for residency status as students.

FORMER DOMICILE

A person who was formerly domiciled in the State of West Virginia and who would have been eligible for an instate residency classification at the time of his/her departure from the state may be immediately eligible for classification as a West Virginia resident provided such person returns to West Virginia within a one year period of time and satisfies the conditions of Section Two regarding proof of domicile and intent to remain permanently in West Virginia.

APPEAL PROCESS

The decisions of the designated institutional officer charged with the determination of residence classification may be appealed to the President of the institution. The President may establish such committees and procedures as determined necessary for the processing of appeals.

Student Affairs

Fairmont State provides many services to its students for the purpose of assisting them in adjustment to the college environment. The Office of the Vice President for Student Affairs coordinates and assumes responsibility for all activities and services directly affecting the welfare of students.

Social and cultural opportunities are a significant part of the educational experience. Office of Student Affairs encourages students' growth and development by helping them to understand themselves, others and their relationship to society. Services provided by Student Affairs include career development/planning, residence life, counseling, student health services, child care, disability services, freshman orientation activities, student organizations, student activities, Student Government and work-study employment on campus.

Student Services

CAREER SERVICES

The Office of Career Services provides students and alumni with a variety of benefits, including career exploration, life planning, and job searching assistance. Students can utilize interactive computer software and career counseling to clarify their options. An extensive career resource library is also available. Career Services provides the following:

- Assistance in declaring a major through a variety of assessment tools
- Personalized career counseling
- Information on employment trends, outlooks, etc.
- Internship/practical experience opportunities
- Seminars, career/job fairs
- Choosing a Career class (Human Services 1199)
- Graduate school information
- Internet job search
- Full and part-time job opportunities
- On-campus interviewing
- Career resources library
- Establishment of credential file

All students and alumni are encouraged to take advantage of these resources. The Office of Career Services is located in Suite 300 Colebank Hall and is open Monday through Friday, 8:00 a.m. to 4:00 p.m. Evening appointments may be made by arrangement. (304) 367-4214.

COUNSELING SERVICE

The counselors in Student Affairs offer professional assistance with personal problems, problems of social relationships and the understanding of oneself and others. Its staff consists of professionals trained in clinical practice and counseling who are experienced in dealing with issues common to college students. These services are available to all students in the belief that they often find significant benefit in counseling as a means of increasing self-awareness, maximizing potential and making the college experience more productive and meaningful. Contacts with the Fairmont State's Counseling Services are held in strict confidence. Appointments may be made by calling 367-4792 or in person at 306 Colebank Hall.

DISABILITY SERVICES

Fairmont State is committed to providing educational opportunities for all students and assisting them in making their educational experience successful and positive. In compliance with Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act of 1990, Fairmont State recognizes a student with a disability as anyone who has a physical or mental impairment that substantially limits one or more major life activities. Student Disability Services coordinates the provision of reasonable accommodations for students with disabilities. All reasonable accommodations are individualized, flexible and confidential, based on the nature of the disability and the academic environment. Individuals requesting accommodations must provide current documentation of their disability to the Office of Student Disability Services, located in 307 Colebank Hall. The Coordinator for Disability Services and the student will work on determining appropriate accommodations. The student will receive letters for the faculty explaining the accommodations. It is the student's responsibility to provide faculty with this letter. Any faculty member who has not been provided with an accommodation letter is not required to accommodate a student's disability.

Assistive technology and a number of related services are available to students registered with the Office of Disability Services, including psychological testing, priority registration, special assistive software and additional tutoring. For more information and documentation criteria, please contact the Coordinator of Disability Services at 367-4686.

STUDENT ORIENTATION

New students arrive on the campus in advance of other students to become acquainted with the campus, buildings, academic programs, student activities, and student welfare in general. Throughout the orientation period, new students are assisted and guided by trained student counselors, who are sympathetic to the individual problems of students.

STUDENT HEALTH SERVICE CENTER

When college is in session, a nurse is available for first aid and the treatment of minor ailments from 8:00 a.m. until 4:00 p.m. Tuesday; 8:00 a.m. until 5:00 p.m. M,W,Th; and 8:00 a.m. until 12:30 p.m. on Fridays, in the Student Health Service Center located on the third floor of the Falcon Center. The phone number is 367-4155.

ACADEMIC DEVELOPMENT CENTER

The Academic Development Center offers courses in college reading and study skills, pre-algebra, elementary algebra, and composition skills for students who enter college with academic deficiencies and or low placement test scores in any of those areas. These courses do not apply toward the credit hours required to graduate but they do provide institutional credit, counting toward a student's full-time status. Each course offered through the Academic Development Center is worth three institutional credit hours. These courses can be found under the heading Academic Development Center in the schedule of courses. The Center's main office is 200 Jaynes Hall.

Students are required to complete all such required, non-graduation credit courses within their first 32 credit hours of college if they are majoring in an AA, AS, or AAS program. Students in BA and BS programs are strongly encouraged to complete these courses within their first 32 credit hours.

TUTORING PROGRAM

Pierpont Community & Technical College and Fairmont State University provide an accredited tutoring program, which has been certified by the College Reading & Learning Association's International Tutor Certification program. All students are entitled to 10 hours of free tutoring each semester; students registered in the Disability Services can receive additional hours. Trained peer tutors are available through Tutorial Services at 207 Jaynes Hall. The office houses study carrels and support materials for one-on-one or small group tutoring sessions in virtually all subject areas. For further information, contact the Tutorial Director in 203-B Jaynes Hall.

SUPPLEMENTAL INSTRUCTION

Supplemental Instruction is a new program at Fairmont State, implemented to enhance learning in historically difficult courses. To facilitate learning, faculty-recommended students who are trained as SI Leaders lead weekly out-of-class study sessions. Participation is free and available for all students enrolled in a SI-targeted course. For further information, contact the Supplemental Instruction Supervisor in 203-B Jaynes Hall.

MULTICULTURAL AFFAIRS

The Office of Multicultural Affairs provides multicultural education for all students. Educational programs and activities will assist majority and minority students to identify their commonalities and to understand, accept and value their differences. Students can learn to relate to members of diverse groups, communicate effectively across racial and cultural lines, and transfer these skills to a variety of settings. Multicultural Affairs is committed to developing programs which expand awareness and promote cultural opportunities for all students.

The Office of Multicultural Affairs also promotes systematic change that fosters a multicultural perspective across campus. As change agents, we work with various allies to incorporate diverse perspectives into every facet of the institution, including admissions, hiring practices, administrative policies and procedures, academic curriculum, and co-curricular activities.

Finally, the Office of Multicultural Affairs provides support to underrepresented ethnic groups. This support includes assessment and other functions designed to identify the psychosocial, academic, and other needs of minority students; communication of these needs, along with recommendations for meeting them, to other units of campus; programs and services that enhance students' personal, social, educational, and cultural development; and efforts to encourage all students to participate in and contribute to the life of the campus.

NON-TRADITIONAL STUDENTS

Historically students over the age of 25 have been characterized as "non-traditional". Today more than 47% of college students fall under this non-traditional classification in U.S. higher education. However, non-traditional students or adult learners might be better defined as students who often exhibit one or more of the following seven characteristics:

- Have delayed enrollment into post-secondary education
- Attend part-time
- Are financially independent of parents
- Work full-time while enrolled
- Have dependents other than a spouse
- Are a single parent
- Lack a standard high school diploma

By using these criteria, the National Center for Education Statistics estimates that over 60 percent of students in higher education could be classified as non-traditional.

Over the past two decades, enrollment of adult learners at Fairmont State has grown in both absolute numbers and in proportion to total enrollment. With this increase, the college recognizes the need for a pro-active approach to meeting the non-traditional student's individualistic and special needs. The unique circumstances of the non-traditional student requires that the college offer special support services in order for these students to achieve academic success and to enhance the students' capacities to become self-directed, lifelong learners.

Students needing assistance should contact the non-traditional student advisor in the Community & Technical College, Room 207 in the Hardway Building.

ALUMNI ASSOCIATION

The Fairmont State Alumni Association, founded in 1873, is the official organization representing graduates of Fairmont State (including Fairmont State Normal School, Fairmont State Teachers College, Fairmont State College, Fairmont State University and Pierpont Community & Technical College). The Association is led by an elected, unpaid, volunteer Board consisting of graduates of Fairmont State.

The purpose of the Fairmont State Alumni Association is to unite its members in an effective organization dedicated to the advancement of Fairmont State by:

a. strengthening the relationship between the alumni and Fairmont State through effective communication and collaboration about current programs, activities and needs;
b. perpetuating and strengthening the bonds of loyalty and friendship among alumni;
c. supporting Fairmont State-sponsored activities, on and off-campus, that enrich the life of the institution, its students and community as well as provide incentive for participation;
d. representing the interests of alumni to the institution, by providing information and making recommendations for action;

e. assisting the institution, its student body and alumni members with vocational guidance and job placement;
f. taking such other action as may be deemed appropriate for the advancement of the Institution and the Association.

Contact the Fairmont State Alumni Association through the Director of Alumni Affairs at:

Director of Alumni Affairs
Erickson Alumni Center
1201 Locust Avenue
Fairmont, WV 26554
Direct Dial: (304) 367-4375
Fax: (304) 367-4742
Toll Free (866) 372-ALUM
Web: www.fairmontstate.edu/alumni/alumni_home.asp

Visit the Erickson Alumni Center at 1300 Locust Avenue, Fairmont, West Virginia.

THE LIBRARIES OF FAIRMONT STATE

HUTCHINS, THELMA J. (2000)
Director of Library Services
Associate Professor of Library Science

GRUBB, WILLIAM (1997)
Distance Learning Library Services Librarian
Assistant Professor

HAMMONDS, ROBERT H. (1998)
Cataloging Librarian
Assistant Professor

HUGHES, AMY (2005)
Coordinator of Library Science Program
Reference Librarian
Assistant Professor

MATTHEWS, DAVID F. (1990)
Reference Librarian
Assistant Professor

MAZURE, SHARON L. (1997)
Reference and Interlibrary Loan Librarian
Assistant Professor

Fairmont State has three libraries that may be used by all students, faculty and staff. The Ruth Ann Musick library is located on the second and third floors of the library building on the main campus. The other libraries are located at the Caperton Center in Clarksburg and the National Aerospace Education Center (NAEC) at Bridgeport. These libraries function at the heart of the institution's academic program. Library personnel work closely with students and faculty to develop research skills and to provide a wide range of support services that enhance the learning experience. The library's print and electronic holdings are designed to support the curricular needs of the academic program of study offered at the institution and to encourage intellectual and personal growth.

The libraries provide easy access to over 311,000 items, including books, periodicals, government documents, compact discs, videos and other multimedia, and to electronic databases. Subscriptions to over 18,000 journals and newspapers, either in print or with full text online, provide the latest information in all disciplines.

The libraries have an online, web-based catalog of all holdings. This catalog is searchable from any location in the world, through the use of a web browser (see http://www.fscwv.edu/library/index.html). The libraries provide access to a web-based electronic reserves system, allowing students to access readings, etc., online via the Internet.

REFERENCE SERVICES

The librarians offer instructional programs and training sessions, including orientation which covers the use of the library's resources, methods of dealing critically with available information and ways in which the library can provide information, both through traditional means and by the latest electronic methods. Training in methods of information-gathering on the Internet and through other electronic resources is available to all users.

The library on the main campus is open over 103 hours a week during fall and spring semesters, and over 66 hours during the summer sessions. At least one professional librarian is available or on call most hours that the library is open. The librarians provide individualized assistance with projects, research questions, and papers.

Among the libraries' holdings are thousands of reference works, abstracts, and indexes, as well as computerized, web-based databases, both full-text and bibliographic in nature.

INTERLIBRARY LOAN

If students need research materials that are not available in one of the libraries, the items may be requested through Interlibrary Loan, either online or in person. Users may place and track requests online, using ILLIAD. Using a major bibliographic database (OCLC), library staff handles requests quickly and efficiently. Response time is improved through use of fax equipment, the posting of articles to a secure website for borrowers, and ARIEL (Internet transfer of documents).

ONLINE SERVICES

The librarians at Musick Library maintain the libraries' web pages with information resources available to all students online. Resources include over 46,000 electronic books, downloadable eaudiobooks, journal indexes, a wide range of full text journals, encyclopedias, style manuals, newspapers, government documents, and bibliographic indexes in all areas of the sciences, social sciences, humanities, and technology. Specialized assistance in locating resources is available and students and faculty may email questions to the librarians. All online resources are available remotely from any location with Internet access, through the use of the Fairmont State email username and password.

Student Activities

STUDENT GOVERNMENT ASSOCIATION

Student Government at Fairmont State actively seeks to supplement the academic atmosphere with intellectual, cultural, and social activities. Student Government members are involved in all aspects of life on campus and work cooperatively with the college administration.

Every segment of the student body is represented in the

Government. Members are elected each spring by the student body and receive special training for their positions. The association comprises a president, vice president, secretary, treasurer, parliamentarian, representatives of the four classes and other student organizations. A faculty advisor is assigned by the Vice President for Student Affairs.

Student Government meets every Thursday at 12:30 p.m. in 128 Hardway Hall. All meetings are open and any student is welcome to attend.

CLUBS, HONOR SOCIETIES, AND SOCIAL ORGANIZATIONS

Fairmont State students have organized over 80 clubs and honorary organizations for the promotion of interests in various academic fields, the recognition of outstanding achievement in various campus activities, and for general social purposes. A list of currently active organizations can be found in the Student Handbook or in 305 Colebank Hall.

RELIGIOUS ORGANIZATIONS

Organized religious groups on campus include the Wesley Foundation, sponsored by the United Methodists and Presbyterians; Chi Alpha, related to the Assemblies of God; and the Baptist Campus Ministry, related to the American Baptist Church. Other recognized religious organizations are: Bible Study Group, Campus Light Ministries, Campus Crusade for Christ, Gamma Omicron Delta, Increasing Our Faith and New Beginnings Campus Ministry. A complete list of active organizations is available in the office of Student Affairs. Services of ministers from many denominations and other faiths are available to the campus at all times through the Newman Center and Wesley Foundation.

Contact Rev. Michael Paul Waide of the Wesley Foundation at 304-363-8210 or fairmontstatewesleyfoundation@yahoo.com Web address for the Wesley Foundation is www.fairmontstate.edu/SO/wesleyfoundation

PUBLICATIONS

Student publications available on campus include *The Columns*, the student newspaper; *The Mound*, the yearbook; and *Whetstone*, the art and literary journal. Staff positions are open to all interested students, with approval of the respective editor and advisor. Application forms are available in 301 Jaynes Hall. Students participating as staff members may also receive course credit for their work. Editors are responsible for staff assignments, and enrollment is by advisor permission (Professor Kevin Smith for *The Columns* and *The Mound*, and Professor Donna Long for *Whetstone*). Editor positions for the respective publications are competitive and chosen annually by the Student Publications Board, which governs all student publications. Student publications allow students to hone their writing, editing, photographic, and graphic-design skills in professional settings, using advanced computer technology. *Whetstone* showcases student writing and fine art and accepts submissions on a rolling basis. *The Columns* is published 11 times per semester and is distributed by noon each Monday. *The Mound* and *Whetstone* are published annually. Student publications are financed primarily by student fees.

Other campus publications include *Tracts*, a journal of student scholarship. Published annually, *Tracts* is edited by a faculty member and student staff members. For information about staff positions or submissions, contact Professor J. Robert Baker. *Fairmont State Occasional Papers*, also edited by Professor Baker, is a monograph series which publishes the texts of presentations and professional writings by faculty and staff. Each year it publishes the lecture delivered in the "Presidential Lecture Series." *Kestrel: A Journal of Literature and Art* features poetry, fiction, nonfiction, drama, and visual art from art and literary professionals around the world. It offers junior- and senior-level students the opportunity for professional experience in adjudication, publication and business management through internships with three hours of course credit (Journalism 3399: *Kestrel*). *Kestrel* is published biannually and acts as a cultural bridge to the community; its mission is to promote living literature and art. Interested students should inquire in the Department of Language and Literature.

The West Virginia Folklife Center, housed in the Department of Language and Literature at Fairmont State, publishes two journals through the Fairmont State Press. *Traditions* is a journal of West Virginia folk culture and educational awareness. First published in 1993, this annual periodical emerged from the West Virginia Humanities Summer Seminar for Teachers, "Appalachian Culture: Texture, Text, and Context, a Folkloric Approach to Learning." *Traditions* is the continuation of *West Virginia Folklore*, published at Fairmont State from 1951 to 1983. *Traditions* is supported by Fairmont State, the West Virginia Folklife Center, and the West Virginia Humanities Council. *Hillchild* is a folklore chapbook about, for, and by children of West Virginia. First published in 2002, it is supported by Fairmont State, the WV Folklife Center, and the West Virginia Humanities Council. Students pursuing a minor in Folklore Studies assist co-editors Dr. Judy P. Byers and Cultural Specialist Noel W. Tenney with these publications. For more information about these publications, telephone Professor Byers at 367-4717 or visit wvfolklife@fairmontstate.edu or www.fairmontstate/wvfolklife.

The Fairmont State Press was established in 2004. In addition to producing *Traditions* and *Hillchild*, the Press has published a memoir, *The Dulcimer Man: The Russell Fluharty Story* and companion CD, *Russell Fluharty Playing the Hammered Dulcimer, and From a Place Called Solid: West Virginia and Its Writers*, a literary map of West Virginia. For information about these publications, contact Professor Byers.

MUSIC ORGANIZATIONS

Performing organizations in the Music Department are open for the participation of all interested and qualified students at Fairmont State.

Instrumental organizations include the Falcon Marching Band, FSU Wind Ensemble, University-Community Symphony Orchestra, Brass Ensemble, Percussion Ensemble and Stage Band. Other chamber ensembles, such as flute ensemble, guitar ensemble, saxophone quartet and piano ensemble are organized on occasion under faculty supervision.

Vocal ensembles include Collegiate Singers and the Chamber Choir. Additional ensembles are organized on occasion under faculty supervision.

All musical ensembles present concerts on and off campus during the school year. Students may receive up to 3 credit hours in the Liberal Studies curriculum by performing in Marching Band, Wind Ensemble, Collegiate Singers, or Orchestra. Interested students should contact the Music Department, in the School of Fine Arts, for additional information.

FORENSICS (PUBLIC SPEAKING, ORAL INTERPRETATION, AND DEBATE)

Fairmont State offers a variety of programs for all students interested in public speaking, oral interpretation and debate. Participation in all of these activities is open to any full-time student in good academic standing at Fairmont State. All activities operate under the direction of the Speech Communication and Theatre faculty. The Intercollegiate Debate Squad participates annually in eight to ten intercollegiate debate tournaments at colleges and universities throughout the East and Midwest. The debate squad also sponsors and participates in public exhibition debates.

Students may participate in intercollegiate competitions in oratory, extemporaneous speaking, persuasive speaking, impromptu speaking, after-dinner speaking, prose interpretation, poetry interpretation and dramatic interpretation. All full-time students have the opportunity to participate in the Annual M.M. Neely Oratorical Contest. The contest is a persuasive speaking event which is endowed by the heirs of the late U.S. Senator and Governor of West Virginia, M.M. Neely. All speech communication majors and minors must compete in the Neely Contest as a final recital presentation.

The FSU Chapter of Pi Kappa Delta, the national forensics honorary, recognizes outstanding students through membership in the local chapter. Fairmont State is a member of the National Forensic Association and the American Debate Association.

THEATRE

Fairmont State offers an active theatre program for the benefit of performers, technicians and theatergoers.

The Masquers, the official student theatrical organization since 1923, presents annually a season of plays, varied in style and period, usually in Wallman Hall during the fall and spring semesters. The plays are directed by the Speech Communication and Theatre faculty, and designed by faculty or students under faculty supervision. Acting roles and positions on the production crews are open to the student body on a voluntary or course-credit basis. Performances are open to the public. Membership in Masquers is open to the student body and is earned through participation with the theatrical productions.

Since 1960, the Masquers' Town and Gown Theatre has also presented a season during the summer months. Students enrolled in summer theatre courses work along with the members of the Resident Company (selected students receiving a grant for full-time acting and technical work) and members of the community. The Masquers bring a season of light theatre fare (comedies, musicals, children's plays) to Northern West Virginia theatergoers and provide a cultural, recreational, and educational outlet for all participants. The plays are directed, designed, and supervised by the professionally trained members of the Speech Communications and Theatre faculty and/or guest artists. Acting roles and positions on production crews are open to the public as well as to the students, faculty, and staff at Fairmont State on a volunteer or course-credit basis.

The Studio Theatre presents student-directed and faculty-directed presentations in a studio/experimental setting in Room 314 Wallman Hall. Acting roles and positions on production crews are open to the student body. Students who have demonstrated scholastic and production excellence are offered membership in the Alpha cast of Alpha Psi Omega, the National Dramatic Honorary.

INTRAMURAL SPORTS

The Intramural program offers a variety of recreational opportunities for students, faculty, and staff. Various activities are organized for competitive play among groups, individuals, and organizations. Events such as flag football, basketball, bowling, softball, golf, spades, soccer, volleyball, and foul shooting are some of the activities offered.

The philosophy of the Intramural program is to provide every student, faculty, and staff not engaged in varsity competition an opportunity to participate in a variety of competitive recreational sports in a safe environment; to facilitate the opportunity for camaraderie; and to create opportunities for healthy lifestyles and physical fitness. It is the goal of the department to foster sportsmanship, fair play and respect for competition through a diverse variety of organized sports and recreational activities.

INTERCOLLEGIATE SPORTS

Fairmont State University is a member of NCAA Division II, the West Virginia Intercollegiate Athletic Conference and sponsors an intercollegiate athletic program of 14 sports: 7 sports for men in football, basketball, baseball, cross-country, golf, tennis and swimming, and 7 sports for women in tennis, golf, basketball, volleyball, swimming, softball, and cross-country. Cheerleading is also offered for women. Fairmont State provides fine indoor and outdoor facilities and equipment for physical education and recreation. All students are free to participate in intercollegiate sports, intramural sports and in all recreational activities.

ATHLETIC POLICY

The program of intercollegiate athletics at Fairmont State is supervised by a Director of Athletics, who reports to the University President, the Lettermen's Athletic Association and an athletic committee made up of faculty.

The general objectives of the intercollegiate athletic program at Fairmont State are to teach students the values of sportsmanship, good physical conditioning, and the disciplinary and social values of organized team play. Specific goals include training through participation for prospective coaches and physical education instructors and the acquisition of experiences and skills which may enhance recreational outlets following graduation.

In pursuance of the policies recommended by the North Central Association, the following minimum standards governing intercollegiate athletics are maintained:

- The ultimate responsibility for the conduct of the athletic program rests with the President of the University.
- Students participating in athletics are admitted by the Director of Admissions on the same basis as other students. Athletes are required to maintain the same academic standards as non-athletes.
- The award of scholarships, student loans, and student employment to athletes are made through the same agency of the Institution and on the same basis as grants of aid to all other students. All employed students are required to give full and honest work for pay received.
- All athletic funds are handled by the Business Office. An audit of the receipts and disbursements of these funds is made annually by the Legislative auditors.

- An effort is made to compete only with institutions having similar educational and athletic policies.
- Fairmont State University is a member of the West Virginia Intercollegiate Athletic Conference and the National Collegiate Athletic Association (NCAA). Athletic participation is regulated and controlled by the eligibility rules of the Conference and the NCAA. Copies of these rules are on file in the Office of the Director of Athletics.

Campus Life

GENERAL REGULATIONS

In matters concerning student rights, responsibilities, and social conduct, special reference should be made to the published Student Handbook and the Parking and Vehicle Regulations brochure.

RESIDENCE LIFE

Fairmont State maintains four residence halls, which accommodate approximately 844 students. Each residence hall provides a learning environment which is designed to enhance academic and social life. Prices vary by residence hall. For additional information, contact Residence Life at (304) 367-4216.

Fairmont State also owns and operates College Park Apartments, which consists of 113 rental units. Apartment tenants are required to sign a 12-month lease and abide by all rules and regulations as described therein. Prices vary based on apartment type. For more information, contact the Complex Manager at (304) 368-3939.

1. All unmarried freshman and sophomore students who are under 21 years of age are required to live in campus housing, so long as space is available.
2. All residence hall assignments are made for the entire academic year; students may not move or transfer from any residence hall, except to graduate, to withdraw for the remaining part of the academic year, to marry and live with their spouse, to commute to take care of an incapacitated parent, or to move to a different environment for approved health reasons.
3. Applicants for room reservations must pay a deposit at the time of application; this fee, less any damage, will be returned at the end of the occupancy period. Written notice of cancellation must be received by Residence Life by May 15 or the deposit is forfeited. A deposit is also required of students who wish to reserve a room for the spring term only. This deposit will be returned if the student provides a written request for a refund before December 15. This fee, less any damage, will be returned at the time of withdrawal from the residence hall.
4. All residence hall students and their parents or guardians are responsible for being familiar with the code of behavior, and all other regulations that are listed and explained in the Residence Life Handbook.
5. The institution reserves the right to limit the number of students in the residence halls under its control.
6. Students who live in the residence halls must purchase a meal ticket for the Dining Hall.
7. Room and board fees must be paid in full for a semester on or before registration day.
8. Residence halls will be closed during all academic breaks including the Thanksgiving and Christmas vacations.
9. In cases where a preponderance of circumstantial evidence exists of policy violation or criminal action, the student's room will be searched in accordance with the Residence Life Handbook.
10. Any residence hall students who are suspended or expelled from Fairmont State and/or a residence hall for disciplinary reasons may forfeit their right to any residence hall refund.
11. All residence halls are smoke-free.
12. Alcoholic beverages or illegal substances are not permitted in the Residence Halls.

STUDENT AUTOMOBILE REGULATIONS

Fairmont State provides a 940-space parking garage for students as well as parking spaces in defined areas throughout the campus. Parking decals are required and are included in tuition; they can be picked up in 236 Hardway Building. Students receive parking brochures at the time of admission and they are available from the Dept. of Public Safety. Visitor and/or day passes can be purchased from the Dept. of Public Safety. Additional information may be found in the Student Handbook.

FALCON CENTER

The student Falcon Center, centrally located on campus provides an environment where students and employees can comfortably interact with one another while enjoying a variety of fitness and wellness programs, eating areas and study lounges. The campus bookstore, convenience store, dining services, food court, game room and much more are available for both students and employees.

Included in the recreation/fitness areas are: 7,000 square feet of fitness equipment with cardio-theater; five multi-purpose courts marked for basketball, volleyball, badminton and indoor soccer; multi-purpose rooms offering a variety of fitness classes; 25-yard fitness/lap pool, whirlpool, sauna, and outdoor sunning deck; four-lane cushioned jogging/walking track and spacious locker rooms with lockers that may be rented.

CAFETERIA

Marketplace-style breakfasts, lunches and dinners are served Monday through Friday in the Cafeteria, located on the third floor of the Falcon Center (the student activity center). Brunch and dinner meals are available on weekends and on some holidays. Students on 15- or 19-meal plans are to attend meals at this location or may use their Flex Dollars to buy food or groceries at the Nickel. Commuter students may also dine in the Cafeteria, as all menu offerings are priced a la carte, in addition to the one-price, all-you-care-to-eat option. Commuters have another option – purchasing a "block" of meals, available in blocks of 20, 30 or 50, to be redeemed as the student desires and valid throughout the semester. Every meal plan participant must present his/her student ID card to the cashier to show payment for a meal. To learn more about the dining options and to make suggestions, call the Dining Services office.

FOOD COURT AND CONVENIENCE STORE

The Nickel, located on the second level of the Falcon Center, provides another dining option, especially for those in a hurry. Meal Plan participants may elect to use some of their Flex Dollars at the Food Court, which offers pre-wrapped salads and sandwiches, subs made to order and fresh sandwiches off the grill. All items are individually priced. The Food Court also carries a large inventory of grocery and sundry items, snacks and fountain and bottled beverages, along with a coffee/latte/cappuccino bar.

BOOKSTORE

The Fairmont State Bookstore, located on the second floor of the Falcon Center, carries all textbooks and school supplies needed for classes and a large selection of Fairmont State wearing apparel and gifts. Other items available include diploma frames, graduation supplies, beach towels, decorative frames, general reading books, reference and test prep books, blankets, greeting cards, computer cables, computer media storage items, postage stamps, blank note cards, school spirit items, plush animals, dorm room supplies, work out items, and much more. Computers and computer software at educational discounts are available.

Special Programs of Fairmont State

COMMUNITY SERVICE LEARNING

Service Learning is a national movement utilized in a number of colleges and universities in the United States. It is the process of integrating volunteer community service with active guided reflection which enhances student understanding of course material. The distinguishing characteristic of service learning is its twofold emphasis on both enriching student learning and revitalizing the community. To accomplish this, effective service learning initiatives involve students in:

- Understanding the connections between textbook and experiential knowledge.
- Enhancing students' self-esteem through meaningful contributions to the community.
- Engaging students in decision making, critical thinking, and application of learned skills.
- Providing human resources to meet the educational, human, safety and environmental needs of the community.
- Creating a spirit of civic responsibility and leadership.

The pedagogy of service learning represents a substantial change from the traditional curriculum and promotes education as a "process of living" which encourages the processing of information, as well as its accumulation. This constant restructuring of information exemplifies the continuity and reality that exists between life experience and knowledge. The Office of Community Service Learning is 317 EDUCATION, phone 367-4830.

FRASURE-SINGLETON STUDENT LEGISLATIVE PROGRAM

The Frasure-Singleton Student Legislative Program provides students the opportunity to observe the West Virginia Legislature for one week during its regular legislative session. Participants are assigned to a legislator who assists in explaining the legislative process. They attend committee meetings and public hearings where legislation and issues are discussed. They sit on the Floor during daily sessions, surrounded by legislators with issue research, constituent requests and other legislative tasks. In addition, participants meet with representatives from all branches of state government, lobbyists, reporters, and legislative staffers.

The program is open to full-time college sophomores, juniors, and seniors from all fields of study. Applicants must be in good academic standing and have successfully completed at least one Political Science course. Participants will earn one semester hour of credit.

For more information, contact the Political Science Department.

HERNDON LEGISLATIVE FELLOWS PROGRAM

The primary goal of this program is to instruct selected full-time undergraduates in the theory and operation of legislative bodies in multi-dimensional roles. Participants will be designated as legislative interns and will perform assignments in the West Virginia Legislature for the duration of its session. They will spend a full semester in the study of the operation, role, and functions of legislative bodies.

To be eligible for this program, students must have completed a minimum of 60 undergraduate semester hours or equivalent, with a grade point average sufficient to admit them to the degree program of their choice. At the time of application, students must be enrolled at their home institutions on a full-time basis and cannot be on academic or social probation. Students may not serve as interns if they are subsequently placed on academic or social probation for the period which would include the internship. Each applicant must have taken at least one college course in political science unless, in the judgment of the selection committee, the student's record displays an active and sustained interest in public affairs or the political process, at which time the course requirement may be waived. For additional information, contact the Political Science Department.

LEADERSHIP CERTIFICATION

Fairmont State University provides students with the opportunity to develop their leadership abilities, regardless of their academic major or minor. Leadership Certification is an interdisciplinary humanities program based in the liberal arts and grounded in theory and practical experience. It is designed to enhance a student's college career by linking leadership to self-awareness, personal growth, organizational theory and practical experience in community service.

REQUIRED COURSES

- Leadership Certification ..... 10 sem. hrs.

INTR	2280	Empowering Leadership	3
INTR	2281	Great Ideas of Leaders	3
MGMT	3390	Human Behavior in Organizations	3
-or -			
PSYC	4410	Theories of Personality	3
HUSV	1103	Community Service Learning	1
-or -		Phi Theta Kappa Leadership Certificate	1

PUBLIC AFFAIRS INTERNSHIPS

The Political Science Department regularly becomes aware of internship opportunities at the local, state, and federal levels of government. These internships can be with members of the state House of Delegates and Senate, the United States Congress, city managers, public interest groups, or state and federal agencies. Internships can take place during the semester or during the summer months. While most of the internships do not include a salary, academic credit can be earned.

For more information, contact the Political Science Department.

THE WASHINGTON CENTER INTERNSHIP PROGRAM

The Washington Center for Internships and Academic Seminars gives students the opportunity to live and work in one of the most important cities in the world, and to experience the professional arena, cultural diversity and educational opportunities of the nation's capital. If accepted into the program, students are placed with a program manager who helps them obtain an internship in the field of their choice, whether it be for-profit, nonprofit or government work. The Washington Center Internship allows students to:

- Develop professional skills
- Clarify personal goals
- Improve research and communication skills
- Meet people from across the country and the world
- Prepare for life after college
- Give perspective on their studies
- Investigate a profession of interest
- Apply academic learning to the work world

For additional information, contact the Office of the Associate Provost or visit www.twc.edu.

WEEKEND COLLEGE

■ Jennifer Weist
230A Hardway Hall / (304) 367-4503
jweist@fairmontstate.edu

The Weekend College program is an alternative course delivery system specifically designed for adult learners who want to earn an Associate degree or complete a baccalaureate degree but find weekday or evening classes inconvenient or incompatible with career and family responsibilities. This accelerated program designed for mature, self-motivated learners meets on Saturdays at Fairmont State's main campus and at the Caperton Center in Clarksburg.

Courses are offered in consecutive 8-week terms. Two terms are offered during each of the Fall and Spring semesters and one term is offered during the Summer. Students may enroll in the Weekend College program prior to the beginning of any 8-week term, provided they have completed the normal admissions process and meet any prerequisites for courses offered. Students attending the Weekend College program can complete an Associate degree in as little as eleven terms (approximately 2 1/2 years). Adding weekday, evening or on-line classes can accelerate the completion of a degree program.

At this time, degree programs offered through the Weekend College Program include:

- Associate of Arts in General Studies
- Associate of Applied Science in Criminal Justice
- Associate of Applied Science in Business Technology with Specialization in General Business or Accounting
- Bachelor of Science in General Business with Emphasisin General Business

The program is designed so that additional programs of study can be added depending on the needs of the service region.

Please contact the Community and Technical College for more information on the Weekend College program, course schedules or information on degree plans.

THE WEST VIRGINIA FOLKLIFE CENTER AT FAIRMONT STATE

■ Dr. Judy P. Byers
(304) 367-4403 or (304) 367-4286
www.fairmontstate/wvfolklife.edu

The West Virginia Folklife Center at Fairmont State is dedicated to the identification, preservation, and perpetuation of our region's rich cultural heritage, through academic studies; educational programs, festivals, and performances; and publications.

ACADEMIC STUDIES

The study of folklore and folklife involves examination and analysis of traditional expressive culture in all its forms, including oral, customary, and material. In every society, agricultural and industrial, rural and urban, folklore is a vital part of life. In higher education, then, since folklife is a study of the humanist expression which is handed down by tradition rather than by writing, it is related to all departments that deal with literature, art, and music. Since folklore also deals with the entire traditional culture of mankind as manifested in customs and beliefs, it has close affiliations with anthropology, psychology, sociology, history, philosophy, linguistics, design and pedagogy.

One of the features of the WV Folklife Center at Fairmont State is a 19-hour interdisciplinary academic minor that can be attached to most liberal arts majors. A folklore studies specialization poises the student for graduate studies and professional involvement in such areas as preservation, archiving, teaching, curating, historical parks and museums management, entertainment, and storytelling.

Pierpont Community & Technical College, in association with the West Virginia Folklife Center, offers a two-track Associate of Arts in Folklife Studies: Museum Studies or Traditional Folk Arts Production and Management.

FOLKLIFE CENTER ARCHIVES

The WV Folklife Center houses the unpublished folklore estate of Ruth Ann Musick, folk tale scholar, who was the archivist for the WV Folklore Society and editor of West Virginia Folklore that was published at Fairmont State. Dr. Musick bequeathed to Fairmont State her folklore estate for academic study, programming, and publications.

Various other artifact collections have been placed in the Folklife Center Archives, and resources to properly process and store these artifacts have been obtained. The Folklife Center at Fairmont State actively seeks donations of any artifacts that will help interpret West Virginia folklife. This may include photographs, family memorabilia, journals, letters, oral histories and folklore, and any other materials of such nature.

SPECIAL PROGRAMMING

Awards

B.B. Maurer WV Folklife Scholar Award annually honors a person who has made an outstanding contribution to the preservation and perpetuation of our Appalachian cultural heritage,this award is named for Dr. B.B. Maurer (1920 - 2003), considered the "Father of Cultural Studies in West Virginia."

The WV Folklife Center Achievement Award is a special recognition award in an area of folklore studies.

Summer Teacher Institutes in partnership with the West Virginia Humanities Council

Folk Festivals and Summer Celebrations
Fall and Spring Gatherings: Demonstrations, Exhibits, Presentations

Study Abroad Travel Programs such as Roads to Appalachia through Scotland and Ireland

West Virginia Folklife Center at Fairmont State is a part of the Department of Language and Literature in The College of Liberal Arts. Located on the campus of Fairmont State, 1201 Locust Avenue, Fairmont, West Virginia 26554. For more information contact Dr. Judy P. Byers at (304) 367-4403 or (304) 367-4286, Website: www.fairmontstate/wvfolklife.edu.

Pierpont Community & Technical College

CENTER FOR WORKFORCE EDUCATION

■ Dale Bradley, Assistant Provost
Workforce Development & Off Campus Programs
320 Adams Street, Suite G01, Fairmont / (304) 367-4920
dbradley@fairmontstate.edu

The Community and Technical College operates a workforce training facility in downtown Fairmont at Veterans Square, 320 Adams Street Suite G01. This 12,000 square foot facility contains two state-of-the-art computer labs, four training rooms, a conference area and business offices.

The Center is designed to provide a flexible environment, enabling rapid response to regional business and industry workforce training needs. Programs focus on upgrading current workers skills and knowledge with a special emphasis on high-end computer technology training and certification for adults. Most activities are short term, non-academic credit training programs.

The Center offers both customized and open enrollment training. Customized training programs are specifically developed to address identified training needs of regional business and industry for their current workforce. Businesses may also lease the Center's computer and training rooms to deliver their own training activity. Open enrollment training programs are developed in response to a recognized regional need and are open to any individual meeting the entrance requirements.

ACT CENTER

■ Keith Nichols, Manager
Center for Workforce Education
320 Adams Street, Suite G01, Fairmont / (304) 367-4930
knichols@fairmontstate.edu

Pierpont Community & Technical College is an authorized ACT Center. Fairmont State's ACT Center housed at the Center for Workforce Education is operated in Partnership with ACT Inc., known previously as the American College Testing Organization, and is one of four authorized ACT Centers in the State of West Virginia and one of two hundred and fifty ACT Centers planned nationwide.

The ACT Center is a combination "High Stakes" Testing Center and training resource center for area businesses, individuals and organizations. The Center offers just-in-time, just-enough training programs tailored to needs. The ACT Center offers courses in seven major workforce development categories: Key Work Skills, Computer Basics, English as a Second Language (ESL), Industrial Technology and Safety, Information Technology, Management and Leadership, and Personal and Professional Development.

All of the over 3000 training programs available through the ACT Center are computer based with more than 90 percent of these courses web-based. Trainees have access to the courses for which they are enrolled up to one year. The ACT Center's courses and pay-as-you-use structure is designed so that it can be used as a "Corporate University" for smaller to medium sized businesses.

Other Center for Workforce Education and ACT Center services include certification and licensure testing, workplace assessments, continuing education, skill-specific training, and educational and career guidance.

PEARSON VUE® AUTHORIZED TESTING CENTER

■ Keith Nichols, Manager
Center for Workforce Education
320 Adams Street, Suite G01, Fairmont / (304) 367-4930
knichols@fairmontstate.edu

Pierpont Community & Technical College is an authorized Pearson VUE® Testing Center. The college's Pearson VUE™ Testing Center is housed at the Center for Workforce Education. Pearson VUE is the electronic testing business of Pearson Education providing Information Technology certification test delivery using the Pearson VUE® Testing System. The Pearson VUE advanced computer-based testing system administers exams for a variety of professions including; health and medicine, academic/admissions, driving tests, financial services as well as leading IT certification programs such as Microsoft, Cisco Systems®, CompTIA, IBM and others through a global network of quality test centers.

SMALL BUSINESS DEVELOPMENT CENTER

■ Tim James, Fairmont Regional SBDC Office
320 Adams Street, Suite G01, Fairmont / (304) 367-4920
tjames@fairmontstate.edu

■ Paul Cook, Flatwoods SBDC Office
249 Skidmore Lane, Sutton, WV 26601 / (304) 765-7300
ecook@fairmontstate.edu

Pierpont Community & Technical College operates two Small Business Development Centers (SBDCs): one is the Fairmont State Regional SBDC with central offices located in the Center for Workforce Education; the other is the Fairmont State Flatwoods SBDC located in the Flatwoods Outlet Mall in Sutton WV. Both are operated in partnership with and are members of the West Virginia Small Business Development Center Network, a Division of the West Virginia Development Office. Together these offices are responsible for promoting economic development in 11 counties throughout north-central West Virginia by

providing the small business community access to free business consulting services, assistance and entrepreneurial training.

LABORATORY PRESCHOOL

The Early Childhood Associate of Applied Science Program provides a half-day preschool program for children of students, faculty, staff and the community. The three year old class meets from 8:30 to 11:00 on Tuesday and Thursday. Parents may select one of two classes available on Monday, Wednesday and Friday for four-year-old children. The classes are 8:30 to 11:00 and 12:00 to 2:30. Classes are held in room 124 of the Education Building. The preschool is provided during fall and spring semesters when FSC classes are in session.

The preschool is a licensed center and serves as a model early childhood program training facility. Financial assistance from the Department of Health and Human Resources may be available for families meeting eligibility requirements. For more information, contact the Early Childhood Program Coordinator at 367- 4588.

WORKKEYS

The state mandates that students completing programs in the Community and Technical College take the WorkKeys assessment prior to graduation. This instrument measures skills acquired in the education process. There is no fee involved. Students will receive a summary of their results. WorkKeys results are frequently used in hiring decisions by several national corporations. Students with these results could have an advantage in the job market.

COMMUNITY EDUCATION

■ **Ronald Weist, Director**
Community Education
320 Adams Street, Suite G01, Fairmont / (304) 367-4913
rweist@fairmontstate.edu

Community Education at Pierpont Community & Technical College is housed at the Center for Workforce Education located at Veteran's Square in Downtown Fairmont, with programs offered throughout Fairmont State's service region. The mission of the Community Education department is to provide lifelong learning opportunities and expand the learning community of Fairmont State, through educational, cultural, economic, social and recreational activities.

Community Education programs consist of short term, non-credit classes and are open to all members of the community. Classes are designed to allow students to explore a wide variety interests and to expand upon their talents and skills in an affordable, convenient and supportive learning environment – without tests or grades!

Examples of programs offered through Community Education include computer classes, language courses, painting, pottery, financial planning, photography, dancing, landscaping, music, floral design, aerobics, cooking and much more.

ADULT LEARNING CENTER

■ Kay Pitrolo
308 Hardway Hall / (304) 367-4873

Pierpont Community & Technical College and Marion County Adult and Community Education are offering support services for the learning needs of students at Fairmont State. Our purpose is to assist students in finding solutions now to build skills for success. Students need strong basic skills and an ability to adapt to change.

Through the Adult Learning Center, students can receive support services in the following areas:

- Enhance skills in mathematics, oral and written communication, and reading to assist with WorkKeys Skills.
- Study for Civil Service Test Preparation and ACT Test Preparation.
- Study to pass the GED (high school equivalency diploma.)
- Gain skills to meet entrance requirements for vocational and other higher educational placement programs.
- Obtain computer skills needed in today's information society.
- Complete career interest inventories and learning style inventories.
- Learn English as a second language.
- Testing for student grade levels in math, reading, and language.

The West Virginia Department of Education recognizes that today's workplace presents numerous opportunities and challenges for adults in West Virginia. It is our aim to effectively serve the foundational learning needs of diverse groups and provide a learning system that is flexible and responsive to the individual needs.

VOCATIONAL CAREER PROJECTS

With the assistance of the Carl D. Perkins Vocational Education Act, Vocational Career Projects provides supplemental services and activities for adults. Various projects assist adults in different areas. These include workshops for those in need of training or retraining, programs for men and women entering nontraditional occupations, assistance for single parents or displaced homemakers enrolled in vocational education, and providing guidance to displaced workers subsidized by state and federal agencies.

The Vocational Career Projects program conducts pre-college orientations designed to help adults who are in the process of beginning or returning to college and provides information on admissions and registration, financial aid, degree options, child care, and numerous other college procedures.

TECH PREP PROGRAMS OF STUDY

■ **Hardway Hall / (304) 367-4094**

Articulation agreements have been implemented with area high schools and vocational/technical centers to award college credit for course work completed under the Tech Prep Programs of Study. Students who achieve recognized competencies may apply credits to several two year Associate Degrees at Pierpont Community & Technical College. Students should contact their local high school for Tech Prep Programs of Study available and refer to the Community and Technical College Office for articulation policies and procedures.

EDGE

EDGE stands for Earn a Degree-Graduate Early. It allows students to take high school courses for community and technical college credit. This allows students to save money for college credits.

Students should contact their high school counselor for information or go to www.wvtechprep.wvnet.edu.

BOARD OF GOVERNORS

(Associate in Applied Science Degree)

■ Jan Williams, Program Coordinator/Advisor
308 Hardway Hall / 367-4707
jwilliams@fairmontstate.edu

The Board of Governors A.A.S. Degree offers busy adults an opportunity to complete a two year college degree with a technical or occupational focus. It is a flexible degree plan that can help adults achieve their educational goals and save students both dollars and hours by awarding college credit for documented work and life-learning experiences. The educational plan can be individualized and the pace of completion set by the student. There is no special fee for enrollment in this program but a special application form is required. Students will work closely with the Program Coordinator in planning and completing this special degree program.

Special Notes:

1.) This program is available to students who have graduated from high school two or more years prior to enrollment. For those students who earned their GED certificate, it must be two years from the date their class would have graduated.
2.) To fulfill residency requirements a minimum of 12 credit hours must be completed from a regionally accredited higher educational institution.
3.) A minimum of 15 credit hours are required for an Area of Emphasis (optional). For more information on approved areas of emphasis, contact the Coordinator.
4.) Students desiring to submit portfolio(s) for credit evaluation must meet with the Program Coordinator for direction and must be enrolled in the program.
5.) Students seeking college credit for certifications/licenses/training approved by the State Board of Governors Degree Program must meet with the Program Coordinator and provide official copies of certifications/licenses/training.
6.) The BOG degree will articulate with the WV Regents Bachelor of Arts Degree.

See complete list of requirements for this degree in the C&TC catalog section under "Programs of Study."

Fairmont State University

PRE-PROFESSIONAL AND PRE-PROGRAM STUDIES

Pre-professional and pre-program studies are listed under Special Academic Programs because there is no academic major or degree associated with these preparatory ("pre") studies. In each case, the prescribed series of courses is designed to prepare the student to apply to a program or school that awards a degree. Two distinct types of preparatory studies exist at Fairmont State.

1.) Pre-professional studies prepare students to apply to professional schools at another institution after they have completed specific undergraduate coursework at Fairmont State. Professional schools include medical, dental, engineering, pharmacy, physical therapy, veterinary or law school. Admission to professional schools is highly competitive and often requires successful completion of standardized tests and other special requirements. All students who plan to apply to professional schools are asked to declare an academic major and pursue a 4-year degree at Fairmont State while completing the coursework specified by the professional school they desire to attend. Students who indicate an interest in pre-professional study will be given an advisor in the major area and an advisor specific to the pre-professional study they plan to pursue. Students should also carefully consult the catalog of the professional school that they plan to attend.
2.) Pre-program studies prepare students to apply to a competitive undergraduate degree program, either at Fairmont State or at a different institution. Before a student is accepted into the nursing program, for example, he or she will be assigned a pre-nursing advisor and will have no official major. Pre-program status exists for both two-year and four-year programs.
   a. Pre-program studies for which a degree program exists at Fairmont State include pre-education, pre-nursing, pre-veterinary technology, pre-physical therapy assisting, pre-medical laboratory technology, pre-health information technology, and pre-emergency medical services.
   b. Pre-program studies for which a degree program exists at other institutions, but for which a student can prepare while at Fairmont State, include pre-radiation technology, pre-respiratory care, pre-medical technology and pre-journalism.

PRE-DENTAL CURRICULUM

Students planning to study dentistry should complete basic science courses as well as a broad range of general education courses with better than a B average. The School of Dentistry at West Virginia University requires applicants to have completed three or more academic years of work in the liberal arts, in addition to the following specific course requirements:

BIOL	1105, 1106	Biological Principles I, II	8
CHEM	1105, 1106	Chemical Principles I, II	9
CHEM	2201, 2202	Organic Chemistry I, II	8
ENGL	1104, 1108	Written English I, II	6
PHYS	1101, 1102	Introduction to Physics I, II	8

Courses in the humanities, social sciences, and advanced courses in biology are also suggested in order to acquire a broadened intellectual background.

PRE-ENGINEERING CURRICULUM

Students planning graduate-level work in engineering should complete the following course work with a B average or better. Students are advised to carefully consult the catalog of the engineering school which they plan to attend, as Fairmont

State University does not have an articulation agreement with any school of engineering.

MATH	1115	Trig. and Elementary Functions	4
MATH	1190	Calculus I	4
CHEM	1105, 1106	Chemical Principles I, II	9
ENGL	1104, 1108	Written English I, II	6
PHED	1100	Fitness and Wellness	2
PHYS	1101, 1102	Introduction to Physics I, II	8
-or-			
PHYS	1105, 1106	Principles of Physics I, II	8
Social Science Elective			3
MECH	1100	Statics	3
DRFT	1100	Engineering Graphics	3

PRE-JOURNALISM CURRICULUM

The journalism minor may also be used in most cases as a pre-journalism curriculum by students planning to transfer at the beginning of their junior year. Students enrolled in this program should consult the college where they will complete their degree for additional course requirements, as Fairmont State University does not have an articulation agreement with any school of journalism. The journalism coordinator should be consulted before enrolling in courses beyond the basic reporting course, JOUR 2240.

In addition to the basic Liberal Studies courses required for any four-year degree, pre-journalism students should enroll in courses listed with information about the journalism minor. *(See College of Liberal Arts, Department of Language and Literature.)*

Pre-journalism students must participate actively in the publication of the student newspaper, The Columns, and the yearbook, Mound, in order to receive departmental recommendation.

PRE-LAW CURRICULUM

Students planning to apply to most law schools may complete a 4-year undergraduate degree in any major at Fairmont State. According to the web site for the West Virginia University School of Law, "Whatever major an applicant decides to pursue should be augmented by a well-rounded variety of course selections that might include philosophy, writing, logic, history, literature, and fundamentals of accounting. The College urges applicants to engage in a curriculum that demands intellectual self-discipline and develops reading, writing, verbal, and analytical skills." Students should carefully consult the pre-law advisor at Fairmont State and the catalog of the law school they plan to attend for more information.

PRE-MEDICAL CURRICULUM

Students planning to study medicine or veterinary medicine should complete basic science courses as well as a broad range of general education courses with better than a B average. Students should carefully consult the catalog of the professional school that they plan to attend. At West Virginia University, the School of Medicine requires a minimum of 90 semester hours of undergraduate work (excluding physical education and ROTC courses) for admission. Pre-medical students should work towards fulfilling the requirements for the bachelor's degree in biology, chemistry, or forensic science. Students electing other majors will still need to complete the **minimum** course requirements shown below.

The following courses will meet the minimum requirements for admission to the School of Medicine at West Virginia University:

BIOL	1105, 1106	Biological Principles I, II	8
CHEM	1105, 1106	Chemical Principles I, II	9
CHEM	2201, 2202	Organic Chemistry I, II	8
ENGL	1104, 1108	Written English I, II	6
PHYS	1101, 1102	Introduction to Physics I, II	8

Six hours of coursework in social or behavioral science is also required, but no particular courses are specified. Additional courses in the humanities, social sciences, and advanced courses in biology are suggested in order to acquire a broadened intellectual background.

PRE-MEDICAL TECHNOLOGY CURRICULUM

Medical Technology is a four-year undergraduate program. The first two years may be taken at Fairmont State University. The entrance requirements of schools of medical technology throughout the nation vary considerably; students should carefully consult the catalog of the school that they plan to attend. Students who have completed 60 semester hours, including the following courses, may be eligible for admission to the third year of the medical technology program at West Virginia University.

ENGL	1104, 1108	Written English I, II	6
BIOL	1105, 1106	Biological Principles I, II	8
CHEM	1105, 1106	Chemical Principles I, II	9
CHEM	2201, 2202	Organic Chemistry I, II	8
MATH	1112	College Algebra	3
MATH	1113	Applied Statistics	4

The other classes should total 21 to 24 hours of core classes. Courses such as microbiology, biochemistry and anatomy should not be taken prior to enrollment in the medical technology program.

Graduates of the Associate of Applied Science degree program in Medical Laboratory Technology (MLT) offered through Pierpont State Community and Technology College are eligible to apply for admission into the WVU Medical Technology (MT) Program. Several courses are waived from the traditional WVU MT Program for Fairmont State MLT graduates.

PRE-PHARMACY CURRICULUM

Many schools of pharmacy offer a doctorate of pharmacy that requires six years of study beyond high school, two years of pre-pharmacy and four years of study in a professional school of pharmacy. Prospective pharmacy students should plan their programs to meet the requirements of the particular professional school of pharmacy to which they plan to transfer. The following two-year preparatory program is suggested for students applying to the WVU School of Pharmacy. Elective slots in the model schedule should be filled with courses that satisfy required general education credits at the pharmacy school. Students without the necessary prerequisites for calculus will be required to take MATH 1115 or 1112 and 1115. The pre-pharmacy advisor should be consulted prior to scheduling each semester.

BIOL 1105, 1106	Biological Principles I, II	8
BIOL 2205	Technical Microbiology	4

CHEM 1105, 1106	Chemical Principles I, II	9
CHEM 2201, 2202	Organic Chemistry I, II	8
ECON 2200	Economics	3
-or-		
ECON 2201, 2202	Economic Principles and Problems I, II	6
ENGL 1104, 1108	Written English I, II	6
MATH 1113	Applied Statistics	4
-or-		
BUS 3310	Business and Economics Statistics	3
MATH 1185	Applied Calculus	4
-or-		
MATH 1190	Calculus I	4
PHYS 1101, 1102	Introduction to Physics I, II	8
SPCH 1100	Introduction to Speech Communication	3

SUGGESTED SCHEDULE

1st Year		2nd Year	
1st Semester	2nd Semester	1st Semester	2nd Semester
BIOL 1105	BIOL 1106	CHEM 2201	CHEM 2202
CHEM 1105	CHEM 1106	PHYS 1101	PHYS 1102
ENGL 1104	ENGL 1108	SPCH 1100	BIOL 2205
MATH 1185 or 1190	MATH 1113 or BUS 3310	Elective	ECON 2200 or 2202
Elective	Elective	Elective	Elective

PRE-PHYSICAL THERAPY CURRICULUM

This curriculum is designed to satisfy the course requirements for admission to the professional portion of the curriculum in physical therapy offered by the West Virginia University (WVU) School of Medicine. Fairmont State University (FSU) students must select a major and complete a bachelor's degree prior to application for WVU's Doctorate of Physical Therapy (DPT) program. All applicants to the DPT program are required to have a bachelor's degree before admission. Information on prerequisite equivalent coursework is provided below. Degrees in biology, chemistry and forensic science meet many of these prerequisites. Applicants with degrees in any area (i.e. philosophy, psychology, etc.) are encouraged to apply, as long as the equivalent prerequisite coursework has been completed.

Students interested in admission to a physical therapy program at an institution other than WVU should consult with the pre-physical therapy advisor for assistance in getting the information about the course requirements at the other institution.

DPT PREREQUISITE COURSE REQUIREMENTS:

HLCA	1100	Medical Terminology	3
BIOL	1105, 1106	Biological Principles I, II	8
CHEM	1105, 1106	Chemical Principles I, II	9
MATH	1113	Applied Statistics	4
-or-			
BUSN	3310	Business and Economics Statistics	3
PHYS	1101, 1102	Introduction to Physics I, II	8
PSYC	1101	Introduction to Psychology I	3
PSYC	3330	Developmental Psychology	3
NBAN*	205	Human Anatomy	3
PSIO**	241	Human Physiology	4
-or –			
PSIO**	441		4

* *this course available on the web; must take the WVU course; contact WVU Dept. of Anatomy*

***must take the WVU course; contact WVU Dept. of Physiology*

REGENTS BACHELOR OF ARTS DEGREE PROGRAM

The Regents Bachelor of Arts Degree Program (RBA) is a flexible, nontraditional program designed for adults in the belief that they are distinctly different from traditional undergraduates in their needs. The program can be tailored to fit the needs of those who need a degree for career advancement, those who have an associate degree in a field in which there is no corresponding bachelor's degree available or those who seek intellectual development and personal fulfillment. The Regents Degree has particular appeal for persons who have completed some college work in past years but did not obtain a degree.

ADMISSION

A student is admitted to the Regents Bachelor of Arts Degree Program by submitting the special application form to Fairmont State University. Admission to this degree program does not provide for automatic admission to other programs at Fairmont State University. Applicants must have graduated from high school at least four years before admission to the program. Persons with high school equivalency certificates may be admitted four years after their high school class graduated. If an applicant has previous college credit, failing grades received four years or more before admission to the RBA program are disregarded. Any student under the Regents degree program must reapply and meet all admission requirements when changing from the Regents Bachelor of Arts Degree program to any other degree program at Fairmont State University.

REQUIREMENTS

To qualify for graduation, candidates must accumulate a total of 128 semester hours of credit with a quality point average of 2.00. At least 40 hours must be at the upper (3300 or 4400) level. Students must complete 36 semester hours of Liberal Studies courses, including the required semester hours in each of the following areas: Communications (6), Social Sciences (6), Natural Sciences (6), Mathematics or Computer Science (3), Humanities (6), and 9 additional hours. At least 24 semester hours must be taken in the West Virginia State System of Higher Education. The RBA is an interdisciplinary degree with no major. The program can be tailored to meet the needs of individual students.

COLLEGE-EQUIVALENT CREDIT

A unique feature of the Regents Degree program is the possibility of obtaining college-equivalent credit. Credit may be awarded for learning which has taken place outside of a college, if the learning is equivalent to that which results from a college course. The learning may have resulted from work experience, on-the-job training, personal study, the pursuit of hobbies, or from a formal vocational program offered outside of a college or university, such as a hospital nursing course or military service training courses. College-equivalent credit is awarded only for the acquisition of knowledge or skills equivalent to the knowledge or skills acquired in college courses. An applicant for college-equivalent credit will prepare a portfolio, which presents in writing a detailed description of the knowledge or skills acquired outside of the college setting. Supporting documents, such as job descriptions and certificates for the completion of training programs, must be included. Directions for portfolio preparation are available for enrolled students in the RBA Office. The portfolio will be reviewed by appropriate faculty members at Fairmont State or by other experts if a field of study is involved

that is not offered by the University. The faculty members will then recommend the hours of credit to be awarded by subject at the upper and lower levels, equating the credit with existing Fairmont State University course offerings. A fee has been established for the assessment process and for the awarding of college-equivalent credit.

For more information on the RBA program, see Jan Williams, Director, 308 Hardway, 367-4193.

GRADUATE STUDIES

Graduate studies at Fairmont State University are designed to give students advanced knowledge in a special field of study, higher levels of professional competence, an understanding of and respect for scholarly research and a sophisticated knowledge of the techniques of continued, lifelong intellectual growth. These goals are achieved through coherent, orderly programs of study, investigation and supervised practical experiences that are carefully planned by each individual student in consultation with his or her graduate faculty adviser.

Fairmont State University currently offers the following graduate degrees:

- Master of Education (M.Ed.), with an emphasis in Special Education, Leadership Studies, Professional Studies, and Online Learning;
- Master of Arts in Teaching (M.A.T.);
- Master of Science (M.S.) in Criminal Justice; and
- Master of Science (M.S.) in Nursing in collaboration with Marshall University.

Programs currently under development include:

- An additional emphasis under the M.Ed. in Reading,
- A Master of Business Administration (M.B.A.), and
- A Master of Science in Human Services.

Choosing to pursue a Master's degree program at Fairmont State University represents a commitment to excellence, personal growth, and lifelong learning. Our graduate programs are committed to a student-centered learning environment that emphasizes concrete experiences, intellectual discourse, and critical reflection. FSU is small enough to allow each graduate student opportunities for interaction with fellow students and distinguished faculty members, yet large enough to provide challenging and diverse areas of study. To better serve graduate students, the university schedules classes at times designed to meet the scheduling needs of part-time as well as full-time students.

Please explore our Graduate Bulletin online at www.fairmontstate.edu/graduatestudies for more information about Graduate Studies at Fairmont State University.

Academic Information

GRADING SYSTEM

The following system of grading is used at Fairmont State:

- A — Superior. Given only to students for exceptional performance
- B — Good. Given for performance distinctly above average in quality
- C — Average. Given for performance of average quality
- D — Lowest passing grade, for performance of poor quality
- F — Failure. Course must be repeated if credit is to be received
- FIW — Failure because of irregular withdrawal
- I — Incomplete, a temporary grade given only when students have completed most of the course, but are unable to conclude it because of unavoidable circumstance. Beginning with courses taken during the first semester, 1975-76, the letter grade "I" will be omitted from the calculation of the grade point average for a period of one year following the issuance of the "I." For each letter "I," in a grade report, the instructor must submit a brief description of the course requirements not completed by the student. At the end of the one-year period, the instructor must submit a final grade. If no change is made by the instructor, the grade "I" will be changed to "F."
- W — Withdrew
- CR — Credit. Does not affect quality points (see below)
- NC — No Credit. Does not affect quality points
- P — Pass

QUALITY POINTS

The value of a student's work is indicated by quality points. Candidates for graduation must have at least twice as many quality points as semester hours attempted; that is, a point-average of 2.0 on all college work. Quality points for grades A, B, C, D, are computed as follows:

- A — Four (4) quality points for each semester hour of credit
- B — Three (3) quality points for each semester hour of credit
- C — Two (2) quality points for each semester hour of credit
- D — One (1) quality point for each semester hour of credit

Students' grade averages are determined by dividing the number of quality points by the number of credit hours scheduled. No quality points are attached to grades F and FIW, but the credit hours for the courses in which these grades are received will be used in computing grade averages.

In order to graduate, candidates for degrees must maintain a grade point average of 2.0 or better in all college courses and in all credit earned at Fairmont State. An average of 2.0 must also be maintained in the major and minor fields of study. Students in the teacher education program must attain a grade point average of 2.75 overall, in each teaching field and in professional education.

It is the student's responsibility to remain informed of quality point standing. This information can be obtained at any time from the Registrar.

Grades earned in other institutions shall not be used to make up a deficiency of quality points in this institution.

EXAMPLE FOR COMPUTING GRADE-POINT AVERAGE

Courses Taken	Final Grade	Quality Points	X	Sem. Hours	=	Quality Points (Total)
ENGL 1104	A	4		3		12
BIOL 1101	D	1		4		4
HIST 2211	B	3		3		9
SOCY 1110	C	2		3		6
POLI 1103	B	3		3		9
MATH 1101	W	-		-		-
				16		40

40 Quality Points
16 Semester Hours = 2.5 Grade-Point Average

ENGLISH PERFORMANCE EVALUATION

All students who are candidates for degrees must attain a grade of "C" or above in English 1104 and 1108 in order to prove their competence in the use of the English language. This is a requirement for graduation.

CREDIT/NO CREDIT OPTION

Any student who has completed 58 or more semester hours of credit may select one course per semester on a credit/no credit basis; such courses are to be considered part of the regularly scheduled load. A maximum of 15 semester hours may be completed with this option.

Students may not choose this option for the following courses:

(a) Liberal (General) Studies requirements
(b) courses necessary for the student's major or minor
(c) 5-Adult, 9-Adult, Pre K-Adult, 5-9, K-6, the multi-subject field
(d) professional education for teacher education students

Courses taken under this option will be recorded but will not be reflected in the quality point index. Credit courses will count toward graduation.

Selection of a course for credit/no credit must be made at registration with the approval of the student's academic advisor, and may not be changed after the close of the registration period.

INSTITUTIONAL TESTING PROGRAM

Several standardized comprehensive tests are essential for special groups of students. These tests include, but are not limited to, the following:

AMERICAN COLLEGE TESTING PROGRAM (ACT)

Registration for classes is contingent upon its completion.

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

Students who wish to obtain credit by examination should check at the Center for Workforce Education for test availability.

GRADUATE RECORD EXAMINATION (GRE)

This test is optional for students graduating who expect to attend graduate school. This should be taken during the senior year. Application and information are available in Room 300 Colebank Hall.

PRE-PROFESSIONAL SKILLS TEST (PPST)

Students must earn passing scores on all three sections (reading, mathematics, and writing) in order to be admitted to Teacher Education. Other requirements exist for admission to Teacher Education. Applications and information are available in Room 202A Hardway Building.

PRAXIS II SPECIALTY AREA EXAMS AND PRINCIPLES OF LEARNING AND TEACHING (PLT) TESTS

Students graduating with a Bachelor of Arts Degree in Education are required to take these tests and to achieve the minimum acceptable score for each teaching specialization and developmental level in order to be recommended for licensure. Students normally should take the Specialty Area Exams during the semester prior to their student teaching semester. The PLT exam should be taken during the final semester of their senior year. Applications and information are available in Room 202A Hardway Building.

GRADE REPORTS

Students can access mid-term and final grades by logging on to www.fairmontstate.edu. Select "Enrollment Center" from the "Quick Links" menu on the Fairmont State homepage and enter the Secure Area Log-in.

HONORS PROGRAM

Fairmont State University's Honors Program identifies, encourages and instructs highly motivated, academically superior students. Working within an alternative curriculum, these students enroll in Honors Liberal Studies courses, advanced seminars, and an interdisciplinary colloquium. During their junior and senior years, honors students engage in activities such as independent scholarship, research assignments, internships, and creative projects. The Honors Program encourages students to work closely with other honors students and the honors faculty to explore ideas from various perspectives. Beyond the curriculum, honors students participate in the Honors Association, which provides them with opportunities for field trips, lectures, and cultural events.

DEAN'S LIST

Students who register and receive letter grades for 12 or more hours taken at Fairmont State (excluding credit or audit marks) and receive a grade point average of 3.4 or better are considered honor students and are named to the Dean's List.

GRADUATION WITH HONORS

Candidates for graduation with an associate's degree who maintain a grade point average 3.4 or better will receive the designation of "With Honors" on their diplomas and "Honors" on the Commencement program.

Candidates for bachelor's degrees who have achieved special distinction in academic work will graduate with honors. Honors are determined by the cumulative quality point average of a student's work at graduation. Three grades of honors are recognized: cum laude for a point average of 3.4-3.69; magna cum laude for a point average of 3.70-3.84; and summa cum laude for a point average of 3.85 or better. Honor designations on diplomas are based upon the entire academic record. Honor designations on the Commencement program are based upon the academic record at the conclusion of the semester prior to Commencement.

ACADEMIC CREDIT FOR MILITARY SERVICE

Students who have completed basic training in military service may be granted a maximum of four semester hours of credit, which may be used to satisfy Liberal Studies physical education and/or elective requirements. It is the student's responsibility to request this credit and to verify this military experience to the Registrar.

CLASSIFICATION OF STUDENTS

PIERPONT COMMUNITY & TECHNICAL COLLEGE

Students who have completed the high school or a secondary course and not more than 25 hours of work are classified as freshmen.

Students who have completed 26 hours but not more than 57 hours of college work are classified as seniors in the Community & Technical College.

FAIRMONT STATE UNIVERSITY

Students who have completed high school or a secondary course and not more than 32 hours of work are classified as freshmen.

Students who have completed 33 hours but not more than 64 hours of college work are classified as sophomores.

Students who have completed 65 hours but not more than 96 hours of college work are classified as juniors.

Students who have completed 97 hours or more of college work are classified as seniors.

TRANSCRIPTS

Students at Fairmont State are entitled to official transcripts of their record. Students who fail to meet their financial obligations to Fairmont State or to any of its departments will not be given transcripts.

A request for a transcript of credit should be made in writing and should include the date of last attendance at Fairmont State and social security number. A married woman should give both her maiden and married names. All requests for transcripts should be sent directly to the Registrar. Students may request transcripts online at www.fairmontstate.edu. It takes 3-5 days to process requests. While there is no charge for transcripts, there is a limit of three requests per day. Rush service is available (limit 3 per day) at a charge of $9.00 per transcript and transcripts are mailed or available for pick up either the same day or next business day.

NUMBERING OF COURSES

Courses for freshmen (1000 series) and sophomores (2000 series) constitute the lower level of curriculum. Courses numbered (3000-4499) are primarily for juniors and seniors. Courses numbered 5000 and above are graduate courses. All Liberal Studies requirements consist of lower-level courses which should be completed by the end of the sophomore year.

Students are strongly advised to take at least eight hours of Liberal Studies courses each semester until the requirements have been met.

ACADEMIC PROCEDURES

Semester Load: In order to be considered for permission to carry more than 18 hours in a given semester, a student must have an overall GPA of 3.0. In addition, the student must have a 3.0 GPA from the previous term OR be enrolled in the last semester prior to graduation. Student Credit Load Exception forms must be signed by the Dean of the College and Provost if student is taking over 21 hours.

Declaring a Major: All undeclared students must select a major field of study by the beginning of their junior year.

Late Registration: Late registration fees are assessed in accordance with the fee schedule cited under "Expenses and Financial Aid." Late registrants often fail to obtain satisfactory schedules; the policy of the institution is to give priority to students who register on time.

Schedule Changes: Students may not add new classes to their schedules after registration has ended. However, within the first week of classes, students can drop and/or add classes. Classes that are dropped during this period do not appear on students' transcripts.

Withdrawal from Class: Students may Withdraw from a course(s) with a "W" being recorded up to the Friday during the:

a.) 10th Week of a Full Semester
b.) 5th Week of the 1st 8 Week Session
c.) 5th Week of the 2nd 8 Week Session
d.) 5th Week of the Weekend College
e.) 3rd Week of the 1st 5 Week Summer Session
f.) 3rd Week of the 2nd 5 Week Summer Session
g.) 8th Week of the 10 Week Summer Session

Students may drop a course by logging on to www.fairmontstate.edu. Select "Enrollment Center" from the "Quick Links" menu and enter the "Secure Area Log-in."

Excessive Course Withdrawal Fee: *(Effective August, 2006)* Students who withdraw from individual classes will be charged a $50.00 fee for each course from which they withdraw after the allowable maximum. Community College students may withdraw from a total of four courses before the fee is charged. University students may withdraw from a total of eight courses before the fee is charged.

Withdrawal from Fairmont State: Students can withdraw from the institution with "W" being recorded prior to the last week of classes. Students who fail to follow this procedure will receive an "FIW." Withdraw by logging on to www.fairmontstate.edu. Students can select "Enrollment Center" from the "Quick Links" menu and enter the "Secure Area Log-in." Students are urged to print a copy of the transaction for their records.

Repeating a Course: Prior to the receipt of a baccalaureate degree, students may repeat a course in which they earned a grade of "D" or "F". A course may be repeated multiple times as long as the grade is "D" or "F". The original grade will not be deleted from the student's record, but it will be removed from the calculation of GPA and the highest grade earned will be used in determining grade point average. Students may not repeat a course in which they earned a "C" or better.

Courses completed at Fairmont State with a grade of "D" or "F" may be repeated at any accredited institution, provided the course at the other institution is deemed an equivalent course by Fairmont State. Regularly enrolled students who complete work at another accredited institution must secure written permission from the registrar before attempting such course work. The transfer grade policy will apply to these grades.

Courses taken at other West Virginia public institutions that are legally repeated at Fairmont State will be a part of the repeat process, provided the course at the other institution is deemed an equivalent course by Fairmont State.

Minimum Residence Requirements for Graduation: For an associate degree at least one semester's work (at least 16 credit hours) and at least 8 of the last 16 hours in residence are required. For the certificate degree at least eight semester hours work in residence in required.

For a four-year degree, at least one year's work in residence is required, and one semester of it must be in the senior year. A "year of residence" must represent not less than 32 hours credit, and a semester is defined as a minimum of 16 hours credit. Exception is made in the case of students who have completed three years of required work at Fairmont State University and who decide to complete the senior year by substituting approved credit earned subsequently in a college of medicine or dentistry.

Application for Graduation: Candidates for graduation must officially apply for a degree in the Office of the Registrar. This should be done one semester in advance. Visit www.fairmontstate.edu/studentresources and look under "Information About" for graduation deadlines.

Transient Credit: Regularly enrolled students who complete work at another accredited institution on a transient basis must secure written permission of the Registrar before attempting such course work. Transient credit completed without permission will not be accepted.

NONRESIDENT OR OFF-CAMPUS CREDIT

One hundred (100) semester hours of the 128 required for graduation shall be completed in regularly scheduled Fairmont State University courses. The 28 hours of permissible non-residence courses may be earned by extension, home study (correspondence), radio, television, special examination and/or military service. Credit earned in home study will be accepted only when earned in a regionally approved college. CLEP and ROTC credit are excluded from the above limitation.

SCHEDULING FOR CLASSES

All freshmen and transfer students who apply for admission may pre-register during the spring and summer preceding fall enrollment. At the beginning of each semester or term, all students are expected to complete registration on the days designated for this purpose. While all students are expected to register on time, late registration periods are permitted with prescribed limits as set forth in the schedule of courses, printed or available online each semester. Late registration fees are assessed in accordance with the fee schedule cited under "Special Fees," found in the Expenses and Financial Aid section of the catalog.

AUDITING COURSES

Students may be permitted to attend classes as auditors if they obtain written permission from their advisor and instructors in the classes they want to audit. A student who enrolls in any class as an auditor may not, in the same semester, be considered as enrolled in the class for the purpose of obtaining credit.

Auditors are required to complete the regular registration process and pay regular fees.

ATTENDANCE AND ABSENCES

Students are responsible for familiarizing themselves with the absence policies of Fairmont State, which can be found in the Student Handbook.

ACADEMIC ADVISING SYSTEM

Students are assigned academic advisors when they first enroll at Fairmont State; those students who are not ready to select a major upon entrance will be assigned to the Academic Advising Center. Students wanting to change their major fields of study must contact the Registrar's Office; students will then be referred to the Advising Center to have a new advisor assigned. Students should discuss problems relating to degree requirements, pre-registration, registration, and withdrawals from class or college with their advisors. (See below)

ACADEMIC ADVISING CENTER

■ (304) 367-4709
advise@fairmontstate.edu

The Academic Advising Center offers advising services to students who have not yet selected a degree program (Undeclared Majors), as well as to prospective, transient, post-graduate, and non-degree-seeking students.

The purpose of the Academic Advising Center is to provide the undecided student with comprehensive advising as well as interpersonal professional support. A concerted effort is made to address any academic concerns that may impede the student's successful completion of degree requirements and to assist the student in the selection of an academic program.

The Center is located in 218 Hardway Building and is open between 8:00 and 4:00 p.m., Monday through Friday. The Center also offers evening appointments, upon request, as an additional convenience for students.

SERVICES:

- Formalized advisor/advisee conferences scheduled throughout the semester.
- Academic assistance and guidance on a drop-in basis for students with immediate concerns or questions.
- Processing of change of advisor for all students.
- Summer advising/registration of all new students, transfers, and readmitted students.
- Workshops sponsored by the Center relevant to maximizing academic success.
- Direct information and referral assistance to campus and community services.

TELEVISED COURSES

Each semester, courses by television are offered that will satisfy degree or elective requirements. Student attendance at these courses is required at a minimum of five Saturday classes for orientation, review and midterm and final exams. Contact Jennifer Weist, 230a Hardway Hall, 367-4503.

OFF-CAMPUS CLASSES

Pierpont Community & Technical College offers off-campus classes at Vocational Technical Centers and high schools throughout the 13 counties of North Central West Virginia. Coordination between on-campus full-time faculty and adjunct faculty who teach off-campus courses assures the same standards of quality as those courses offered on campus. Students may enroll in off-campus courses and transfer earned credit to Fairmont State University. All off-campus classes are governed by the policies and procedures in effect at Pierpont Community & Technical College.

ACADEMIC COMMON MARKET

West Virginia provides opportunities for its residents who wish to pursue academic programs not available within the state through the Academic Common Market and through contract programs. Both programs provide for West Virginians to enter out-of-state institutions at reduced tuition rates. Contract programs have been established for study in veterinary medicine, optometry, and podiatry; the Academic Common Market provides access to numerous graduate programs. The programs are restricted to West Virginia residents who have been accepted for admission to one of the specific programs at designated out-of-state institutions. Further information may be obtained through the Office of the Associate Provost.

THE SUMMER SESSION

Fairmont State offers a ten-week summer session every year. This session is made up of two terms of five weeks each. The requirements for admission and the character of the work offered are the same for the summer session as for the regular year.

All campus activities and facilities are available to students during the summer session. The student body is organized under its own leadership at the beginning of each session. A general program of social, recreational, and dramatic events is scheduled.

Special bulletins for the summer session are prepared for distribution. Those interested in working toward a degree, or in renewal of certificates, or in pre-professional courses, should write for the Summer Bulletin. Address: Registrar, Fairmont State, 1201 Locust Avenue, Fairmont, WV 26554.

STUDY ABROAD PROGRAMS

In keeping with a desire to provide more direct student enrichment programs in international education, Fairmont State provides Study Abroad opportunities to students enrolled in a formal degree or certificate program. Students may receive collegiate academic credit for study and experience occurring outside the United States by enrollment in

1) a resident study abroad or travel-study program sponsored by Fairmont State;
2) a resident study abroad or travel-study program sponsored by FACDIS (The West Virginia Consortium for Faculty and Course Development in International Studies);
3) a program directed by faculty members from other West Virginia institutions;
4) a program sponsored by a US college or university or Consortium with institutional approval;
5) a foreign university as a special student;
6) an accredited US college or university abroad or
7) a program sponsored by an organization other than a college or university, with Fairmont State's approval.

Students will be required to obtain prior consent from their academic unit before registering for study abroad programs.

Although such international experience is not required in all programs, study abroad is strongly recommended for students not only in the field of foreign languages but in other fields as well (such as the humanities, social sciences, business, art, etc.). Resident study abroad programs or travel-study programs will be integrated with traditional academic courses offered at Fairmont State and will become part of the regular institutional curriculum. Study abroad is an important component of a comprehensive studies program which can contribute to the development and growth of the individual student and prepare the student to function more effectively in a global society. Participants in such programs will enhance their preparation for further graduate or professional studies and employment while deriving countless other benefits.

Regulations

Students are responsible for familiarizing themselves with the Student Handbook concerning student rights and responsibilities and matters of academic dishonesty such as cheating and plagiarism.

ACADEMIC DISHONESTY

All students and faculty members are urged to share in the responsibility for removing every situation which might permit or encourage academic dishonesty. Cheating in any form, including plagiarism, must be considered a matter of the gravest concern. Cheating is defined here as the obtaining of information during an examination; the unauthorized use of books, notes, or other sources of information prior to or during an examination; the removal of faculty examination materials; the alteration of documents or records; or actions identifiable as occurring with the intent to defraud or use under false pretense.

Plagiarism is defined here as the submission of the ideas, words (written or oral), or artistic productions of another, falsely represented as one's original effort or without giving due credit.

For the application of the Academic Dishonesty Policy go to http://www.fairmontstate.edu/publications/CampusHandbooks/studenthandbook/default.asp

PROBATION/SUSPENSION POLICY

(Revised March 2006)

SATISFACTORY ACADEMIC STANDING

A student is deemed to be in Satisfactory Academic Standing when his/her cumulative grade point average, based upon coursework taken at Fairmont State, is 2.0 or higher.

UNSATISFACTORY ACADEMIC STANDING

A student is deemed to be in Unsatisfactory Academic Standing when his/her cumulative grade point average, based upon coursework taken at Fairmont State, is below 2.0.

ACADEMIC PROBATION

1.) The status of Academic Probation is automatically applied to a student when the cumulative grade point average, based upon coursework at Fairmont State, falls below 2.0.
2.) The status of Academic Probation will be removed only after the cumulative grade point average, based upon coursework taken at Fairmont State, is 2.0 or higher.
3.) A student who is placed on academic probation may continue to enroll on a full-time basis, but will be limited to 15 semester hours.

ACADEMIC SUSPENSION

The academic records of students on probation will be reviewed at the end of each regular semester with regard to Academic Suspension. The following guidelines will be used in the review.

1.) Academic Suspension occurs when a student's cumulative grade point average, based upon coursework taken at Fairmont State, falls below the minimum required GPA in

relation to the overall attempted institutional and transfer hours (listed below).

Credit Hours*	GPA
16-32	1.45
33-63	1.75
64+	2.00

**Attempted hours at Fairmont State plus transfer credits.*

2.) Students will be placed on probation for one semester before they are subject to academic suspension.
3.) No student with a current semester GPA of 2.0 or higher will be subject to academic suspension.
4.) Students will be given the opportunity to attend summer school at Fairmont State to make up their GPA deficiency.
5.) A student who is academically suspended will not be permitted to enroll in coursework at Fairmont State for the following fall or spring full semester.
6.) A student is automatically eligible for readmission after the period of suspension is over, but must reapply through the Office of Admissions to have his/her Academic Suspension hold removed.
7.) Fairmont State will not accept credit for courses taken at any institution while a student is suspended.

A student who is suspended may appeal the decision by writing a letter to the appropriate Provost. Students in the Community College should address letters to the Office of the Assistant Provost, 230 Hardway Building. University students should address letters to the Office of the Associate Provost, 208 Hardway Building.

ACADEMIC FORGIVENESS POLICY

Only the students applying for readmission after the effective date of this policy will be eligible for forgiveness under this policy. This policy supersedes all previous Academic Forgiveness Policies at Fairmont State. Academic Forgiveness only applies to courses taken at Fairmont State University or Pierpont Community & Technical College.

Academic forgiveness is intended for the student who is returning to college with a grade point deficit and who has not been enrolled as a full-time student (12 or more credit hours) in any institution of higher learning during the five consecutive academic years immediately preceding the readmission semester. A student who does not normally qualify for readmission because of a low GPA may be admitted and placed on academic probation, unless the student has been placed on academic suspension. When forgiveness is granted, grades of D, F and FIW earned prior to the aforementioned five-year period are excluded from the computation of the grade point average. However, no failing grade will be removed from the permanent record. The academic forgiveness policy may be applied after a student has earned 12 credit hours that apply toward graduation, with a minimum GPA of 2.0.

Academic forgiveness will be granted only once for any student. The Registrar will give consideration to a request for forgiveness when s/he receives a signed, written request from the student which certifies that the student has not been enrolled as a full-time student (12 or more credit hours) in any institution of higher learning during the five consecutive academic years immediately preceding the readmission semester. Should the student have attended any institution of higher education on a part-time basis during the specified five-year period, s/he must have earned at least a 2.0 GPA in all course work attempted. The student's request for forgiveness must be submitted during the readmission semester, and it must identify the non-enrollment period. If all prerequisite conditions have been met, academic forgiveness will be granted at the time the current GPA is calculated officially by the Registrar upon completion of the readmission semester.

The academic forgiveness policy does not alter, change, or amend any other existing policies at Fairmont State and is formulated to be consistent with Series 20 of the West Virginia Higher Education Policy Commission. This policy pertains only to the calculation of the GPA required for graduation and does not pertain to GPA calculated for special academic recognition (such as graduating with honors) or to requirements for professional certification which may be within the province of licensure boards, external agencies, or the West Virginia Board of Education. The Regents Bachelor of Arts Program is governed by a different forgiveness policy.

Fairmont State is not bound by the decision of any other institution to disregard grades earned in college courses. Similarly, students should be aware that academic forgiveness extended by Fairmont State may not be recognized by other institutions to which they may transfer.

Degree Programs and Requirements

Pierpont Community & Technical College

An Associate of Arts, Associate of Applied Science, or Associate of Science degree is also granted upon successful completion of at least 60 semester hours in the two-year curricula. A Certificate is offered in several areas.

Associate of Arts, Associate of Science, Associate of Applied Science, Certificate Program

	Degree Offered	Minimum Sem. Hrs. Required
Airframe and Aerospace Electronics Tech	A.A.S.	75
Applied Design		
Fashion Design	A.A.S.	65
Interior Design	A.A.S.	65
Aviation Maintenance Technology	A.A.S.	68
Aviation Technology	B.S.	*(see FSU)*
Board of Governors	A.A.S.	60
Business Technology		
Accounting	A.A.S.	66
General Business	A.A.S.	66
Criminal Justice	A.A.S.	65
Drafting/Design Engineering Technology	A.A.S.	65
Early Childhood	A.A.S.	66
Emergency Medical Services	A.A.S	66
Folklife Studies	A.A.	66
Folk Arts & Crafts Production	A.A.	66
Museum Studies	A.A.	66
Food Service Management		
Culinary Arts	A.A.S.	64
Dietary Manager	A.A.S.	64
Pastry & Baking Arts Specialization		64
Resort & Hotel Management Specialization		64
Graphics Technology		
Commercial Design	A.S.	64
Electronic Publishing	A.S.	64
Internet Publishing	A.S.	64
Health Information Technology	A.A.S.	73
Homeland Security	A.A.S.	68-71
Aviation		68
Criminal Justice		71
EMS		66
Safety		68
Information Systems Technology	A.A.S.	66
Interpreter Training	A.A.S	64
Liberal Studies	A.A.	67
Medical Laboratory Technology	A.A.S.	73
Office Management and Technology	A.A.S.	57
Para-Education	A.A.	65
Paralegal	A.A.S.	64
Physical Therapist Assistant	A.A.S.	70
Respiratory Care	A.A.S.	64
Veterinary Technology	A.A.S.	77
Occupational Development		
Building and Construction Trades	A.A.S.	64
Early Child Practitioner	A.A.S.	64
Emergency Medical Services	A.A.S.	72
Correctional Officer	A.A.S.	68
Fire Fighters	A.A.S.	65
Food Service Specialist	A.A.S.	64
Technical Studies		
Automotive Technology	A.A.S.	64-72
Highway Technician	A.A.S.	72
Information Systems	A.A.S.	64
Radiologic Technology	A.A.S.	64
Water and Wastewater	A.A.S.	71
Wood Production Technology	A.A.S.	64
Certificates (One-year)		
ASL Communication	Certificate	33
Emer. Med. Technician-Paramedic	Certificate	36
Folk Arts Apprenticeship	Certificate	34
Laboratory Assistant	Certificate	34
Paraprofessional in Education	Certificate	36
Skill Set		
Paraprofessional Accounting	Skill Set	18
Administrative Assistant	Skill Set	18
Ballroom Dance	Skill Set	20
CAD Computer Aided Design	Skill Set	16
Classroom Teacher's Aide	Skill Set	6
Classroom Teaching Assistant	Skill Set	18
Computer Forensics	Skill Set	18
Early Childhood Teacher's Aide	Skill Set	6
Early Childhood Teaching Assistant	Skill Set	18
Intelligence Research & Analysis	Skill Set	21
Office Technology	Skill Set	18
ProMgmt Certificate®	Skill Set	20
Serve Safe®	Skill Set	23

DEGREES

Pierpont Community & Technical College offers three kinds of two-year associate degrees.

ASSOCIATE OF ARTS

The associate in arts degree is designed to satisfy the lower division requirements of bachelor of arts degrees, thereby, preparing students to transfer to an upper division baccalaureate program. The studies required in this degree embody the characteristics of an educated person and generally place emphasis upon the social sciences, humanities, and professional fields within these disciplines.

Graduation from an associate in arts program assures that students have been provided a foundation in general education that enables them to appreciate their culture and environment as well as different cultures of the world; the development of a system of personal values based on accepted ethics that lead to civic and social responsibility; and the attainment of communication skills necessary for growth as a lifelong learner. It also assures the employer that graduates have satisfactorily completed at least 60-72 credit hours.

ASSOCIATE OF SCIENCE

The associate in science degree is designed to prepare people for immediate employment or to satisfy the lower division requirements of bachelor of science degrees, thereby, preparing students for the work force or to transfer to an upper division baccalaureate program. A minimum of 6 hours of transfer English and 12 hours of math and/or science are required for this degree and will embody the characteristics of an educated person and generally place emphasis upon the sciences and mathematics that support technical fields of study, such as engineering, agriculture and science-related fields.

Graduation from the associate in science program assures that students have been provided a foundation in general education that enables them to appreciate their culture and environment as well as different cultures of the world; the development of a system of personal values based on accepted ethics that lead to civic and social responsibility; and the attainment of communication skills necessary for growth as a lifelong learner. It also assures the employer that graduates have satisfactorily completed 60-72 credit hours.

ASSOCIATE OF APPLIED SCIENCE

The associate in applied science degree is generally awarded to those who successfully complete programs which emphasize preparation in the applied arts and sciences and are designed to lead individuals to employment in a specific career. It also assures the employer that graduates have satisfactorily completed 64-72 credit hours. Although the objective of the associate in applied science degree is to enhance employment opportunities, some baccalaureate degree granting institutions have developed upper division programs to recognize this degree for transfer of credits.

CERTIFICATE PROGRAMS

Certificate programs, which generally take one year or two semesters of full-time course work to complete, are designed for students seeking to learn basic skills or to increase their proficiency in a specific occupational area. In a certificate program, students take skill-development courses in their field of interest and a limited number of related courses. Graduates of certificate programs may use their credentials to seek immediate employment or may continue their studies in a degree program.

Degree Programs: See Academic Information for a complete list of Community and Technical College Programs.

ASSOCIATE DEGREES AS MINORS FOR BACCALAUREATE PROGRAMS

Any successfully completed associate or two-year degree offered within the Community and Technical College, except General Studies and the field of the B.A.-B.S. major, may be used to fulfill the requirements for a minor in any B.A. or B.S. (nonteaching baccalaureate) degree awarded by Fairmont State University.

GENERAL STUDIES REQUIREMENTS

The General Studies courses at Pierpont Community & Technical College are intended to provide students with the intellectual skills and the breadth of knowledge which will enable them to thrive both as individuals and as citizens in a democracy and be better able to think clearly, choose wisely, and act responsibly. More specifically, the General Studies courses should accomplish these objectives:

1.) Help students master the skills of analytical reading and listening, oral and written expression, quantitative reasoning, independent thinking, and the ability to find and use information effectively.
2.) Help students comprehend, analyze and appreciate
   a. The world's arts and literature;
   b. The historical and political experience of the world, with appropriate emphasis on that of Western Civilization and America;
   c. The perspectives and methods of the social sciences, philosophy, and technology;
   d. The basic scientific principles which are at work in the world and the procedures used to discover them; and
   e. The knowledge and skills whereby a healthy life may be lived.

The common theme among most of the General Studies courses is connections: connections between belief and action, past and present, other societies and our own, other people and ourselves as well as connections among various fields of knowledge. Insofar as possible, each General Studies course is global and pluralistic in perspective, promotes reflection on values, emphasizes major and enduring aspects of its subject, and reinforces students' intellectual integrity and their abilities to think, read and express themselves clearly, independently and creatively.

Any successfully completed associate degree offered within the Community and Technical College, except General Studies and the field of the B.A.-B.S. major, may be used to fulfill the requirements for a minor in any B.A. or B.S. (nonteaching baccalaureate) degree awarded by Fairmont State University.

GENERAL EDUCATION REQUIREMENTS

The new General Education program will be for all associate degree programs, both terminal and those articulated with Fairmont State University. Many of the programs in the C&TC are designed as 2+2 curriculums that articulate directly into Fairmont State University baccalaureate degrees, and thus most courses in this General Education program are also in the University's Liberal Studies requirements. The general education curriculum will meet the needs of all associate degree programs including Occupational, Technical, or Board of Governors degrees or articulated programs with the University; however, the number of required credits may vary. It will align general education of the C&TC more closely with the University, facilitating a clearer perception of a required studies core for all students. All associate degree programs in the C&TC have been reviewed against the reorganized general education requirements and will fit the needs of AA, AS, AAS, and Occupational/Technical degrees. In addition, it is suggested the current general studies be referred to as "General Education for the C&TC," to distinguish it from the 4 year program.

REQUIREMENTS

Associate of Arts ..... 45 hours
Associate of Science ..... 30 hours
Associate of Applied Science ..... 20 hours
One-year certificate ..... 6 hours

Occupational, Technical and Board of Governors Associate of Applied Science degrees vary by program. See individuals programs for specific requirements.

INTERACTIVE INQUIRY *(Freshman Experience)* ..... 9-12 hrs.

Writing Skills ..... 6 hrs.
ENGL 1104 Written English I ..... 3 hrs.
(PR: ACT 18 or ENGL 0097)
ENGL 1108 Written English II ..... 3 hrs.
(PR: "C" or higher in ENGL 1104)
-or-
ENGL 1109 Tech Report Writing ..... 3 hrs.
(PR: "C" or higher in ENGL 1104)
("C" required in ENGL 1108 or ENGL 1109)for graduation

Listening, Speaking, Analytic and Critical Thinking Skills ..... 3-6 hrs.
INFO 1100 Computer Concepts ..... 3 hrs.
(or other computer course or demonstrated competency)
MATH 1107 or higher ..... 3 hrs
SPCH 1100 Speech Communication ..... 3 hrs

Math Competency required
All C&TC students will demonstrate Math Competency, to be as determined by their program of study.

ADDITIONAL GENERAL EDUCATION REQUIREMENTS ..... 3–6 hrs
Select 3-6 hours from the following areas

Culture/ Civilization Exploration
ENGL 2220, 2221, 2230, 2231 ..... 3–6 hrs
FREN 1101, 1102 ..... 3–6 hrs
HIST 1107, 1108, 2211, 2212, 2213 ..... 3–6 hrs
PHIL 2200, 2250 ..... 3–6 hrs
SPAN 1101, 1102 ..... 3–6 hrs
Foreign Language ..... 3–6 hrs

Artistic / Creative Expression / Performance-Based Courses
ART 1120, MUSC 1120, or THEA 1120 ..... 3 hrs
APPD 1102 Apparel Design ..... 3 hrs
APPD 1116 History of Costume ..... 3 hrs
ARCH 1130 Arch History I ..... 3 hrs
ARCH 1160 Arch History II ..... 3 hrs
DANC 1110 Intro Ballroom Dancing ..... 2 hrs
GRAF 2225 Basic Photography ..... 3 hrs
GRAF 2290 Electro Art Comp Imaging ..... 3 hrs

Interdisciplinary Studies
FOLK 2200 Intro. to Folklore ..... 3 hrs
INTR 1100 Race, Class, and Gender ..... 3 hrs
INTR 2201 Intro Women's Studies ..... 3 hrs
INTR 2280 Empowering Leadership ..... 3 hrs
INTR 2281 Great Ideas of Leaders ..... 3 hrs

Scientific Discovery
BIOL 1105, 1106 ..... 4–8 hrs
BIOL 1170 Anatomy & Physiology* ..... 4 hrs
CHEM 1101, 1102, 1105, 1106 ..... 4–8 hrs
GEOL 1101, 1102, 1103 ..... 4–8 hrs
PHYS 1101, 1102, 1105, 1106 ..... 4–8 hrs
SCIE 1000, 1010, 1110, 1210, 1220 ..... 4–8 hrs
** can not be used for Liberal Studies Sciences*

Society / Human Interaction
ECON 2200 Economics ..... 3 hrs
ECON 2201 Economic Principles I ..... 3 hrs
ECON 2202 Economics Principles II ..... 3 hrs
FOSM 1110 Nutrition* ..... 3 hrs
GEOG 2210 Intro to Geography ..... 3 hrs
POLI 1103 Am Government ..... 3 hrs
POLI 2200 Introduction to Political Science ..... 3 hrs
PSYCH 1101 Intro to Psychology ..... 3 hrs
SOCY 1110 Introductory Sociology ..... 3 hrs
SOCY 1111 Introduction to Anthology ..... 3 hrs
** can not be used for Liberal Studies Society/Hum*

GENERAL EDUCATION ELECTIVES ..... 6 – 29 hrs

In addition to the above 15 hour requirement, the Community and Technical College requires additional General Education electives to complete associate degree requirements. These electives include any 1100 or 2200 level courses which are open to all students and have no prerequisite. See advisor for courses in the program that meet this requirement.

Refer to General Education in terminal degrees for Requirements in programs that do not articulate with Fairmont State. Review specific program curriculum for a list of specific courses that may be required for degree completion.

Fairmont State University

The six baccalaureate degrees granted by Fairmont State University are Bachelor of Science, Bachelor of Science in Engineering Technology, Bachelor of Science in Nursing, Bachelor of Arts, Bachelor of Arts in Education, and Regents Bachelor of Arts. For each of these six degrees a minimum of 128 semester hours of credit is required.

(Minimum hours required)

	DEGREE	MAJOR	MINOR
Allied Health Administration	B.S.	128	
Architecture Engineering Technology	B.S.E.T.	129	
Art			24
Aviation Technology	B.S.	134-136	
Aviation Maintenance Management		136	
Aviation Administration		134	21
Aviation Administration (Flight)		134	18
Biology	B.S.	128	24
Business Administration	B.S.	128	
Accounting	B.S.	162	18
Economics			18
Finance		132	18
General		128	21
Hospitality Management		129	
Information Systems	B.S.	128	18-24
Management		128	
Marketing		128	
Office Administration			24
Sport Management		142	
Clerical			24
International Business			18

Retail Management 18
Chemistry ..... B.S. 128 22
Early Childhood 22
Civil Engineering Technology ..... B.S.E.T. 128
Environmental 132
Computer Forensics 18
Computer Science ..... B.S. 128 19
Computer Security 128
Criminal Justice ..... B.S. 128 18
Education 18
Electronics Engineering Technology ..... B.S.E.T. 129 19
English ..... B.A. 128 21
English (Business and Technical Writing) 18
Forensics ..... B.S. 128
Forensic Psychology 128
Forensic Science 128
Family and Consumer Sciences ..... B.S. 128 22
Child Developent ..... B.S. 128
Interior Design ..... B.S. 128
Fashion Merchandising ..... B.S. 128
Fashion Design 21
Folklore Studies 19
Food Service Management 22
French ..... B.A. 128 24
Geography 18
Graphics Technology ..... B.S. 130 21
Electronic Publishing/Imaging 130
Printing Management 130
Graphics/Fine Arts ..... B.S. 128
Health Science ..... B.S. 128 19
History ..... B.A./B.S. 128 21
Intelligence Research & Analysis ..... B.A. 128 21
Interdisciplinary Studies ..... B.A./B.S. 128
International Studies 21
Interior Design 20
Journalism 18
Journalism (Technical Writing) 18
Library Science 18
Mathematics ..... B.S. 128 24
Mechanical Engineering Technology ..... B.S.E.T. 133
Music 26
Nursing ..... B.S.N. 128
Philosophy 15
Physical Education ..... B.S. 128 20
Physics 30
Political Science ..... B.A. 128 18
Public Administration 21
Psychology ..... B.S. 128 18
Recreation Leadership 25
Regents B.A. Degree ..... B.A. 128
Safety/Environmental Eng. Technology ..... B.S.E.T. 128 23-24
Sociology ..... B.S. 128 18
Spanish ..... B.A. 128 24
Speech Communication ..... B.A. 128 24
Technology 23
Theatre ..... B.A. 128 31
Women's Studies 18

BACHELOR OF ARTS IN EDUCATION

Early/Middle Education Elementary K-6 51
Mentally Impaired K-Adult 23
Specific Learning Disabilities K-Adult 23
Multi-Categorical K-Adult 29

Middle Adolescent Education
Subject Specialization 5-9
Mathematics (through Algebra I) 26

Single Specialization 5-Adult, 9-Adult
Art 45
Biology (9-Adult) 52
Chemistry (9-Adult) 38
English 45
French 33
General Science 39
Health 32
Journalism 24
Oral Communications (Speech Comm. & Theatre) 44
Physics (9-Adult) 43
Technology Education 32

Comprehensive Specializations 5-Adult
Business Education (5-Adult) 60
Family and Consumer Sciences 51
Mathematics 36
Technology Education 59
Social Studies 60

Early Middle and Adolescent Education
Subject Specialization Pre K-Adult
Art 62
Computer Science 24
Music 68
Physical Education 43
School-Library Media 24
Spanish 36

ASSOCIATE DEGREE PROGRAMS

Architectural Engineering Technology .. A.S. 65
Civil Engineering Technology ..... A.S. 67
Electronics Engineering Technology ..... A.S. 69
Mechanical Engineering Technology .... A.S. 67
Nursing ..... A.S. 70
Safety Engineering Technology ..... A.S. 68

UNIVERSITY DEGREE REQUIREMENTS

Candidates for the Bachelor of Arts and Bachelor of Science degrees must complete the Liberal Studies Requirements as described herein, as well as a major and a minor. *Students in the Teacher Education and Nursing programs have different Liberal Studies Requirements (see chapters of the respective schools in this catalog for details).* Students majoring in Biology, Business Administration, Chemistry, Engineering Technology, Forensics and Nursing are not required to have a minor. The major and minor include all required courses specified in this catalog and all other courses attempted in the disciplines designated as the major and minor.

The minimum credit required for graduation is 128 semester hours, with a grade point average of 2.0. In all cases the grade point average for a major or minor must be 2.0 or better, with the exception of a Bachelor of Arts in Education degree, which requires at least a 2.75 in the teaching specialization(s) and overall averages.

Liberal Studies Requirements may also be used to meet major or minor requirements. No course, however, may be counted more than once in meeting the number of semester hours required for graduation. For example, Liberal Studies requirements in English will also satisfy requirements for a major or minor in English.

All variations from prescribed programs must be approved by the appropriate Dean in the major/minor field before students can quality for graduation.

Twelve hours of one foreign language is a general requirement for the Bachelor of Arts degree only. Upon the presentation of two or more units of high school work in a foreign language currently taught at Fairmont State, students may have six hours of this requirement at the elementary level waived,

provided that they are competent to continue the study of the language in classes numbered 2200 or above. It is recommended that students begin their requirement in foreign language no later than their sophomore year.

Students are required to complete at least one designated writing intensive course as part of their Liberal Studies program or their major field of study. This course will not be in addition to other courses, but rather a course from those approved as Liberal Studies or majors courses. Students cannot use ENGL 1104, 1108, 2220, 2221, or 2231 to satisfy the writing intensive course requirement.

Please note: some majors require their students to take particular courses from the options described below. For more information, look up the desired major by its School or College.

LIBERAL STUDIES BACHELOR'S DEGREE REQUIREMENTS

- Bachelor of Science ..... 44 hours
- Bachelor of Arts ..... 53 hours

■ THE FIRST YEAR EXPERIENCE ..... 15-16 hours

(To be completed within the first 45 credit hours)
(Students are required to complete all Developmental Skills courses within their first 32 credit hours.)

			HRS.	GR
ENGL	1104	Written English I #	3	
ENGL	1108	Written English II #	3	
INFO	1100	Computer Concepts & Applications *(or demonstrated competency)*	3	
MATH	1102	or above *(excluding courses below 1102)*	3 - 4	
SPCH	1100	Intro. to Speech Communication	3	

 # Designates courses with prerequisites.

■ SCIENTIFIC DISCOVERY ..... 8 hours

(Choose any 2 courses from the following options; courses do not have to be sequential. All SCIE courses meet LS requirements)

			HRS.	GR
BIOL	1105	Biological Principles I #	4	
BIOL	1106	Biological Principles II #	4	
CHEM	1101	General Chemistry I #	4	
CHEM	1102	General Chemistry II #	4	
CHEM	1105	Chemical Principles I #	5	
CHEM	1106	Chemical Principles II #	4	
GEOL	1101	Physical Geology	4	
GEOL	1102	Historical Geology #	4	
GEOL	1103	Intro. to Environmental Geology #	4	
PHYS	1101	Intro. to Physics I #	4	
PHYS	1102	Intro. to Physics II #	4	
PHYS	1105	Principles of Physics I #	5	
PHYS	1106	Principles of Physics II #	5	
SCIE	_____		4	
SCIE	_____		4	

CULTURAL/CIVILIZATION EXPLORATION ..... 9 hours

(Select the starred course from Option I, II, or III, one additional course from that option, and a third course from Additional courses)

OPTION I *ENGL 1104 is PR for 2000 level courses; ENGL 1108 is PR for 3000 courses*

			HRS.	GR
★ENGL	2220	World Literature I #	3	
ENGL	2221	World Literature II #	3	
ENGL	3382	World Novel #	3	
ENGL	3388	Women's Literature #	3	
ENGL	3389	Minority Literature #	3	
ENGL	3390	Modern Drama #	3	
ENGL	3391	Short Story #	3	
ENGL	3392	Contemporary Poetry #	3	

OPTION II

★ENGL	2221	World Literature II #	3	
ENGL	2220	World Literature I #	3	
ENGL	3370	Medieval Literature #	3	
ENGL	3374	Shakespeare #	3	
ENGL	3385	Arthurian Literature #	3	
ENGL	3386	Bible as Literature #	3	
ENGL	3387	Folk Literature #	3	
ENGL	3395	Mythology #	3	

OPTION III

★ENGL	2230	Intro. to Literature I #	3	
ENGL	2231	Intro. to Literature II #	3	

Additional Courses for all Options

FREN	1101	Elementary French I	3	
FREN	1102	Elementary French II #	3	
FREN	2201	Intermediate French I #	3	
HIST	1107	US History I	3	
HIST	1108	US History II	3	
HIST	2211	World Civilization I #	3	
HIST	2212	World Civilization II #	3	
HIST	2213	World Civilization III #	3	
MUSI	3313	Music in Western Civ. to 1750	3	
MUSI	3314	Music in Western Civ. since 1750	3	
PHIL	2200	Intro. to Philosophy	3	
PHIL	2250	Great Philosophers	3	
PHIL	3325	Ethics	3	
PHIL	3350	Comparative Religions	3	
PHIL	4475	Philosophy of History	3	
SPAN	1101	Elementary Spanish I	3	
SPAN	1102	Elementary Spanish II #	3	
SPAN	2201	Intermediate Spanish I #	3	

■ ARTISTIC/CREATIVE EXPRESSION & INTERDISCIPLINARY / ADVANCED STUDIES OPTION ..... 6 hours

(Select one of the following courses)

			HRS.	GR
ART	1120	Art Appreciation	3	
INTR	1120	Experiencing the Arts	3	
MUSI	1120	Music Appreciation	3	
THEA	1120	Theatre Appreciation	3	

(Select three hours from the following courses)

			HRS.	GR
APPD	1102	Apparel Design	3	
APPD	1116	Hist. of Contemporary Fashion	3	
ARCH	1130	Architectural History I	3	
ARCH	1160	Architectural History II #	3	
ART	1142	Foundations of Drawing	3	
ART	2241	Drawing from Life #	3	
ART	2261	Foundations of Painting #	3	

ART	2283	Sculpture I	3	
ART	3341	Printmaking I #	3	
ART	3362	Intermediate Figure Painting #	3	
ART	3363	Intermediate Water Media I #	3	
ART	3374	Art from Prehistory to 1450	3	
ART	3376	Art from 1450 to 1750	3	
ART	3378	Art from 1750 to 1950	3	
ART	3380	Contemporary Issues in Art	3	
ART	3383	Pottery I	3	
ENGL	3332	Narrative & Descriptive Writing #	3	
ENGL	3333	Writing Non-fiction #	3	
ENGL	3344	Writing Poetry #	3	
ENGL	3345	Writing Fiction #	3	
ENGL	3394	Art of the Motion Picture #	3	
FOLK	2200	Intro. To Folklore	3	
FREN	3315	French Film	3	
GRAP	2225	Basic Photography	3	
GRAP	2290	Elec. Art & Computer Imaging #	3	
GRAP	4400	Comp. Anim. & Multi-Media #	3	
INTR	1100	Race, Class, and Gender	3	
INTR	2201	Intro. to Women's Studies	3	
INTR	2280	Empowering Leadership #	3	
INTR	2281	Great Ideas of Leaders #	3	
INTR	4402	Seminar in Women's Studies #	3	
MUSI		Any combination of 1 hour Music courses .	1-3	
MUSI	1102	Intro. to Keyboard I	1	
MUSI	1103	Intro. to Keyboard II	1	
MUSI	1139	Voice Class	1	
MUSI	1167	Collegiate Singers	1	
MUSI	1168	Marching Band	2	
MUSI	1169	Concert Band	1	
MUSI	1172	Orchestra #	1	
MUSI	2247	Stage Band #	1	
MUSI	2277	Chamber Choir #	1	
MUSI	3313	Music in Western Civilization I	3	
MUSI	3314	Music in Western Civilization II	3	
PHED	1100	Fitness & Wellness	2	
RECR	1146	Folk and Square Dance	2	
THEA	1148	Theatre Workshop I	1	
THEA	2212	Theatrical Makeup	1	
THEA	2220	Oral Interpretation #	3	
THEA	2230	Acting #	3	
THEA	2238	Acting Workshop I	1	
THEA	2244	Intro. to Theatrical Design #	3	
THEA	3340	Theatre History I #	3	
THEA	3341	Theatre History II #	3	
THEA	3392	Costume History and Design #	3	

OR any course beyond the 1100 level in a discipline that is not required within the student's major or minor field of study ..... 3 _____

■ SOCIETY/HUMAN INTERATIONS ..... 6 hours

(Select 2 courses from 2 different disciplines)

			HRS.	GR
ECON	2200	Economics	3	
ECON	2201	Economics Prin. I (Business Majors)	3	
GEOG	2210	Intro. to Geography	3	
POLI	1103	American Government	3	
POLI	2200	Intro. to Political Science	3	
POLI	2201	Prin. of International Relations	3	
POLI	2203	Comparative Government	3	
POLI	4405	Terrorism	3	
PSYC	1101	Intro. to Psychology	3	
SOCI	1110	Intro. to Sociology	3	
SOCI	1111	Intro. to Anthropology	3	

■ APPROVED WRITING INTENSIVE COURSE

(May not use ENGL 1104, 1108, 2220, 2221, 2230, or 2231)
(Most majors include a Writing Intensive coure within the curriculum. Please check with your advisor.)

WRITING INTENSIVE COURSES (WIC)

The Fairmont State Liberal Studies Curriculum indicates that "Students will be required to complete at least one designated writing intensive course as part of their liberal studies program or their major field of study. This course will not be in addition to their other courses, but rather a course from those approved as Liberal Studies or majors courses."

RATIONALE FOR WIC

Writing intensive courses benefit students by:

1) improving writing skills as a means of self-expression
2) increasing knowledge and understanding of course content
3) enhancing critical thinking skills
   - Evaluation
   - Analysis
   - Interpretation
   - Inference
   - Explanation
   - Self-regulation

WRITING INTENSIVE COURSES

ACCT	4410	Case Studies in Accounting	_____
ALLH	4401	Allied Health Practicum and Seminar	_____
ARCH	4460	Design VI	_____
ART	3374	Art History from Prehistory to 1450	_____
ART	3376	Art History from 1450 to 1750	_____
ART	3378	Art History from 1750 to 1950	_____
ART	3380	Art History since 1950	_____
BIOL	3390	Molecular Biotechnology	_____
BUSN	2251	Corporate Communications	_____
BUSN	4415	Strategic Management and Policy	_____
CHEM	4405	Advanced Integrated Laboratory	_____
COMP	3395	Legal & Ethical Issues in Computer Security	_____
CRJU	4410	Research in Criminal Justice	_____
CRJU	4425	Evaluation of the Criminal Justice System	_____
EDUC	3330	The Reading Process	_____
EDUC	3331	Reading in the Content Areas	_____
EDUC	3351	Human Exceptionalities & Cul. Diversity	_____
EDUC	3352	Educational Psychology	_____
ELEC	4400	Senior Electronics Project	_____
ENGL	3303	Survey of American Literature I	_____
ENGL	3304	Survey of American Literature II	_____
ENGL	3313	Survey of British Literature I	_____
ENGL	3314	Survey of British Literature II	_____
ENGL	3332	Narrative and Descriptive Writing	_____
ENGL	3333	Writing Non-Fiction	_____
ENGL	3344	Writing Poetry	_____
ENGL	3345	Writing Fiction	_____
ENGL	3349	Advanced Technical Communication	_____
ENGL	3374	Shakespeare	_____
FACS	3315	Management in the Family	_____
FACS	3335	Parenting	_____
FINC	3385	Analyzing Financial Statements	_____
FREN	4411	Advanced French Comp. & Conversation	_____
GRAP	4410	Special Topics- Graphics	_____
HLTA	3370	Contemporary and Drug Behavior Issues	_____
JOUR	2270	Communications in Society	_____
JOUR	2280	History of American Journalism	_____
JOUR	3312	The Publications Process	_____
MUSI	4431	Methods & Mat. in Teaching Music, 7-12	_____

NURS	4440	Nursing Practicum	_____
PHED	3325	Psychomotor Analysis Lab	_____
PHED	4410	Research Design Seminar	_____
POLI	3340	Political Science Research Methods	_____
PSYC	3390	Foundations of Psychology	_____
SFTY	3300	Industrial Hygiene/Practices	_____
SOCY	4470	Sociological Theory	_____
SPAN	3301	Spanish Composition and Conversation I	_____
SPCH	4499	Seminar in Communication Issues	_____
THEA	3340	Theatre History I	_____
THEA	3341	Theatre History II	_____
THEA	3350	Children's Drama	_____
THEA	3375	Development of Dramatic Art	_____

■ B.A. DEGREE OPTION ..... 12 hours

(Complete all B.S. Requirements with additional foreign language hours)

			HRS.	GR
FREN	1101	Elementary French I	3	_____
FREN	1102	Elementary French II #	3	_____
FREN	2201	Intermediate French I #	3	_____
FREN	2202	Intermediate French II #	3	_____
SPAN	1101	Elementary Spanish I	3	_____
SPAN	1102	Elementary Spanish II #	3	_____
SPAN	2201	Intermediate Spanish I #	3	_____
SPAN	2202	Intermediate Spanish II #	3	_____

PLEASE NOTE:

- *Certain majors require specific Liberal Studies courses. Check with an advisor before registering for courses.*
- *# designates courses with pre-requisites. Please refer to the college catalog for PR information.*
- *The above Liberal Studies Requirements do not apply to Elementary Education majors. Please refer to the catalog or check with an advisor for more specific information.*

Programs of Study
Pierpont Community & Technical College

ACCOUNTING PARAPROFESSIONAL
(Skill Set)

■ Nancy Lawler
127 Colebank Hall / (304) 367-4731
nlawler@fairmontstate.edu

■ Donna Snyder
131 Colebank Hall / (304) 367-4188
dsnyder@fairmontstate.edu

This program prepares students to perform bookkeeping functions in business offices. These functions could include payroll, accounts payable/receivable, purchase orders, inventory control records, and sales records.

REQUIRED COURSES:

• Accounting Paraprofessional ..... 18 sem. hrs.

ACCT	2201	Principles of Accounting I	3
ACCT	2202	Principles of Accounting II	3
ACCT	2217	Concepts of Computerized Accounting	3
BUSN	1141	Business Mathematics	3
FINC	2201	Introduction to Financial Management	3
INFO	2220	Spreadsheet Design	3

For Accounting Associate Degree see Business Technology

ADMINISTRATIVE ASSISTANT
(Skill Set)

■ Nancy Lawler
127 Colebank Hall / 367-4731
nlawler@fairmontstate.edu

■ Donna Snyder
131 Colebank Hall / 367-4188
dsnyder@fairmontstate.edu

This program is designed to help individuals sharpen their skills for today's office setting. It is also designed to assist individuals who are making the transition from secretarial to administrative assistant/supervisory positions.

REQUIRED COURSES:

• Administrative Assistant..... 18 sem. hrs.

BUSN	1102	Introduction to Business	3
BUSN	2251	Corporate Communications	3
MGMT	2209	Principles of Management	3

Computation/Math Skills (Choose 1 course):

ACCT	1100	Fundamentals of Accounting	3
BUSN	1141	Business Mathematics	3
INFO	2220	Spreadsheet Design	3

Computer Skills (Choose 2 courses):

INFO	1100	Computer Concepts and Applications	3
INFO	2235	Microcomputer Applications in Business	3
OFAD	2232	Word Processing Applications	3
OFAD	2233	Database Applications	3

For Administrative Assistant Associate Degree see Office Management and Technology

AMERICAN SIGN LANGUAGE COMMUNICATION
(One Year Certificate)

■ Ruby Losh
303b Jaynes Hall
rlosh@fairmontstate.edu

The American Sign Language Communication program is a one-year certificate program for students with no signing experience. Students in the program receive instruction in the skills and training required to meet the ASL proficiency standards of the Associate level ASL Interpreter Training Program. This one- year certificate (or equivalent course work and signing skills) is required for admission into the selective ITTP program. Program graduates will not be certified interpreters.

• American Sign Language Communication .... 33 sem. hrs.

FRESHMAN FIRST SEMESTER

AMSL	1111	American Sign Language I (8 Weeks)	3
AMSL	1112	American Sign Language II (8 Weeks)	3
AMSL	1101	Deaf Culture and History	3
AMSL	1120	Deaf Studies	3
ENGL	1104	Written English I	3
General Studies *(Recommend PSYC 1101 or SOCY 1100)*			3
			18

FRESHMAN SECOND SEMESTER

AMSL	1113	American Sign Language III *(8 Weeks)*	3
AMSL	1114	American Sign Language IV *(8 Weeks)*	3
AMSL	1104	ASL Fingerspelling	3
AMSL	1130	Interpreting Theory	3
ENGL	1108	Written English II	3
-or-			
ENGL	1109	Technical Report Writing	3
			15

See also Interpreter Training Associate Degree

APPLIED DESIGN

(Associate of Applied Science)

FASHION DESIGN

■ Dr. Beth Newcome, Program Coordinator and Advisor
137 Education Building / (304) 367-4298
bnewcome@fairmontstate.edu

Fashion Design and Merchandising is an option in the Associate degree in Applied Design. This program includes the study of apparel design, historical costume as design inspiration, the business of fashion retailing, visual merchandising and computer design for manufactured apparel. Classroom and studio work are combined with an on-the job work experience in area businesses. The learning experience goes beyond the classroom to include fashion show production and field trips. At the associate degree level, the Fashion program prepares students to pursue careers in the fashion design business, apparel buying at the retail and wholesale level, fashion department managers in department stores, fashion boutiques or retail firms, window display merchandizing, and independent apparel shop ownership. On top of strong job prospects, competitive salaries also await Fashion graduates. New graduates with an associate degree can earn a starting salary of $20,000 to $30,000 annually. This program can be articulated into a 2+2 program with the Bachelor of Science degree in Family and Consumer Sciences, with a major in Fashion Merchandising and a minor in Retail Management, without loss of credit through Fairmont State University.

• AAS Required Courses ..... 65 sem. hrs.

APPD	1101	Prin Clothing Construction	3
APPD	1102	Apparel Design	3
APPD	1103	Clothing and Culture	3
APPD	1115	Intro Fashion Industry	3
APPD	1116	History of Contemp Fashion	3
APPD	1151	Design Concepts	3
APPD	2202	Advanced Apparel Design	
-or-			
APPD	2295	Guided Design Seminar	4
APPD	2210	Textiles	3
APPD	2217	Visual Merchandising	3
APPD	2275	Applied Design Practicum	4
BUSN	1102	Intro to Business	3
BUSN	1141	Business Math	3
BUSN	2205	Small Business Fundamentals	3
BUSN	2251	Corporate Communications	3
ENGL	1104	Written English I	3
		(PR: ACT 18 or ENGL 0097)	
ENGL	1108	Written English II	3
		(PR: "C" in ENGL 104)	
FINE ARTS		Fine Arts Appreciation	3
		ART 1120, MUSI 1120, or THEA 1120	
Graphics Elective			3
Graphics Elective			3
INFO	1100	Computer Concepts & App	3
SOCY	1110	Introductory Sociology	3

• Fashion Design Minor ..... 21 sem. hrs.

APPD	1102	Apparel Design	3
APPD	1115	Introduction to the Fashion Industry	3
APPD	1116	History of Contemporary Fashion	3
APPD	1151	Design Concepts	3
APPD	2217	Visual Merchandising	3
APPD	1101	Principles of Clothing Construction	3
APPD	2210	Textiles	3

MODEL SCHEDULE ..... 65 sem. hrs.

FRESHMAN FIRST SEMESTER

APPD	1115	Intro Fashion Industry	3
APPD	1116	History of Contemp Fashion	3
APPD	1151	Design Concepts	3
ENGL	1104	Written English I	3
		(PR: ACT 18 or ENGL 0097)	
INFO	1100	Computer Concepts & App	3
			15

FRESHMAN SECOND SEMESTER

APPD	1101	Prin Clothing Construction	3
APPD	2210	Textiles	3
APPD	1102	Apparel Design	3
BUSN	1102	Intro to Business	3
Fine Arts Appreciation			3
		ART 1120, MUSI 1120, or THEA 1120	
ENGL	1108	Written English II	3
		(PR: "C" in ENGL 1104)	
			18

SOPHOMORE FIRST SEMESTER

APPD	1103	Clothing and Culture	3
APPD	2275	Applied Design Practicum *(PR: APPD 1115)*	4
BUSN	1141	Business Math	3
SOCY	1110	Introductory Sociology	3
Graphics Elective			3
			16

SOPHOMORE SECOND SEMESTER

APPD	2217	Visual Merchandising	3
APPD	2202	Advanced Apparel Design *(PR: APPD 1102)*	4
- or -			
APPD	2295	Guided Design Seminar *(PR: APPD 1102)*	4
BUSN	2205	Small Business Fundamentals	3
BUSN	2251	Corporate Communications	3
Graphics Elective			3
			16

INTERIOR DESIGN

■ Dr. Beth Newcome, Program Coordinator and Advisor
137 Education Building / (304) 367-4298
bnewcome@fairmontstate.edu

The Interior Design program prepares students for professional service in residential and/or commercial design work. Students have various opportunities to explore and apply principles and elements of interior design and to create functional and aesthetic interior environments. Interior Design includes a study of design, space planning, construction materials, technical rendering, universal access, and presentation skills, in conjunction with a business orientation. Classroom and studio work are combined with an on-the job work experience in area businesses. The learning experience goes beyond the classroom to include actual client projects, and design competition through the student chapter of ASID. The student chapter of ASID (American Society of Interior Designers) offers additional development experiences for students who want to pursue professional certification after graduation. This program, at both the associate and bachelors level, meets all academic requirements for ASID professional registration and can be articulated into a 2+2 program with the Bachelor of Science degree in Family and

Consumer Sciences, with a major in Interior Design with additional study in Architectural Design and AutoCAD, at Fairmont State University, without loss of credit.

• Required Courses ..... 64 sem. hrs.

APPD	1140	Intro to Interior Design	3
APPD	1151	Design Concepts	3
APPD	2210	Textiles	3
APPD	2240	Residential Design	4
APPD	2275	Applied Design Practicum	4
APPD	2217	Visual Merchandising	3
APPD	2260	Contract Design	4
APPD	2250	Design in Home Furnishings	3
ARCH	1130	Architectural History I	3
BUSN	1102	Intro to Business	3
BUSN	1141	Business Math	3
BUSN	2205	Small Business Fundamentals	3
DRFT	2200	Fundamentals of CAD	3
DRFT	2215	Architectural Drafting	4
DRFT	2245	Architecture Design	3
ENGL	1104	Written English I	3
ENGL	1108	Written English II	3
Fine Arts Appreciation			3
		ART 1120, MUSC 1120, or THEA 1120	
INFO	1100	Computer Concept & App	3
SOCY	1110	Intro Sociology	3

MODEL SCHEDULE ..... 64 sem. hrs.

FRESHMAN FIRST SEMESTER

APPD	1140	Intro. to Interior Design	3
APPD	1151	Design Concepts	3
BUSN	1102	Intro. to Business	3
ENGL	1104	Written English I *(PR: ACT 18 or ENGL 0097)*	3
INFO	1100	Computer Concepts & App.	3
			15

FRESHMAN SECOND SEMESTER

APPD	2210	Textiles	3
APPD	2250	Design in Home Furnishings	3
DRFT	2200	Fundamentals of CAD *(PR: INFO 1100)*	3
ENGL	1108	Written English II *(PR: "C" in ENGL 1104)*	3
SOCY	1110	Introductory Sociology	3
			15

SOPHOMORE FIRST SEMESTER

APPD	2240	Residential Design *(PR: APPD 1140)*	4
APPD	2275	Applied Design Practicum *(PR: APPD 1140)*	4
ARCH	1130	Architectural History I	3
BUSN	1141	Business Math	3
DRFT	2215	Architectural Drafting *(PR: DRFT 2200)*	4
			18

SOPHOMORE SECOND SEMESTER

APPD	2217	Visual Merchandising	3
APPD	2260	Contract Design *(APPD: 1140)*	4
BUSN	2205	Sm. Business Fundamentals	3
Fine Arts Appreciation			3
		ART 1120, MUSC 1120, or THEA 1120	
DRFT	2245	Architecture Design *(PR: DRFT 2200)*	3
			16

ARCHITECTURAL ENGINEERING TECHNOLOGY

(Associate of Science)

(See Fairmont State University)

AIRFRAME AND AEROSPACE ELECTRONICS TECHNOLOGY

(Associate of Applied Science)

■ Pieter H. Blood
119 National Aerospace Education Center, Bridgeport, WV
842-8300
pblood@fairmontstate.edu

MODEL SCHEDULE ..... 72 sem. hrs.

FRESHMAN FIRST SEMESTER

AVIO	2208	Avionics Maintenance Practices	3
AVMT	1101	Intro. to Aviation Maintenance	3
AVMT	1102	Aircraft Regulations & Publications	3
AVMT	1103	Aviation Shop Practices	3
MATH	1101	Applied Technical Math *(FAA required)*	3
			15

FRESHMAN SECOND SEMESTER

AVIO	1102	Princ. of Radio & Trans. Rec.	3
AVMT	1105	Aircraft Utility Systems	3
AVMT	1109	Aviation Electronics	3
AVMT	2202	Aircraft Sheet Metal	3
ENGL.	1104	Written English	3
			15

FRESHMAN SUMMER 1

AVIO	2202	Instrument Landing	3
Social Science Elective			3

FRESHMAN SUMMER 2

AVMT	2206	Aircraft Fluid Power and Landing Gear Sys.	3

SOPHOMORE FIRST SEMESTER

AVIO	1110	Aircraft Power Gen. & Dist. Sys.	3
AVIO	2200	Electronic Flight Management	3
AVIO	2204	Aircraft Navigation Systems	3
AVMT	2209	Airframe Inspection & Flight Controls	3
COMP	1101	Applied Technical Programming	3
			15

SOPHOMORE SECOND SEMESTER

AVIO	2206	Aircraft Comm. Systems	3
AVIO	2209	Aircraft Pulse & Radar	3
AVMT	2208	Cabin Atmosphere Control	3
AVMT	2210	Non-Metallic Structures	3
ENGL	1109	Technical Report Writing *("C" or better)*	3
			15

SOPHOMORE SUMMER 1

AVIO	2210	FCC License Prep	3

SOPHOMORE SUMMER 2

AVMT	2299	FAA Capstone Review Class	3

Notes to Degree Plan:

1.) The AVMT 2299 FAA Capstone Review Class is offered both Summer 1 and Summer 2 of each year to prepare second-year AMT Majors for taking the FAA written, oral and practical A & P certification exams. This class, while highly recommended, is not an FAA certificate requirement.

2.) All First Semester classes (AVMT 1101, 1102, & 1103) are pre-requisites for all subsequent classes.
3.) MATH 1101 is a requirement of the FAA Part 147 curriculum and a co-requisite of all subsequent classes.
4.) Must achieve a "C" grade or better in all AVMT and AVIO classes to graduate.

AVIATION MAINTENANCE TECHNOLOGY

(Associate of Applied Science)

■ Pieter H. Blood
119 National Aerospace Education Center, Bridgeport, WV 842-8300
pblood@fairmontstate.edu

The Aviation Maintenance Technology program prepares graduates for careers as qualified maintenance technicians with airlines; fixed base operations, repair stations or aircraft manufacturers. This program is approved by the Federal Aviation Administration and meets the requirements for Federal Aviation Regulation 147.

• Aviation Maintenance Technology ..... 68 sem. hrs.

AVMT	1101	Intro. to Aviation Maintenance	3
AVMT	1102	Aircraft Regulations & Publications	3
AVMT	1103	Aviation Shop Practices	3
AVMT	1105	Aircraft Utility Systems	3
AVMT	1106	Aircraft Information Systems	3
AVMT	1109	Aircraft Electronics	3
AVMT	2201	Reciprocating Engines & Systems	3
AVMT	2202	Aircraft Sheet Metal Structures	3
AVMT	2203	Reciprocating Engine Maintenance & Return to Service	5
AVMT	2204	Propeller Systems	3
AVMT	2205	Turbine Engines and Systems	3
AVMT	2206	Aircraft Fluid Power & Landing Gear Systems	3
AVMT	2207	Turbine Engine Maintenance & Inspection	3
AVMT	2208	Cabin Atmosphere Control Systems	3
AVMT	2209	Aircraft Flight Control Systems	3
AVMT	2210	Non-Metallic Structures	3
AVIO	1110	Aircraft Power Generation and Distribution Systems	3
INFO	1100	Computer Concepts & Applications	3
ENGL	1104	Written English I ("C" or better)	3
ENGL	1109	Technical Report Writing	3
MATH	1101	Applied Technical Math I	3
Social Sciences Elective			3

MODEL SCHEDULE ..... 68 sem. hrs.

FRESHMAN FIRST SEMESTER

AVMT	1101	Introduction to Aviation Maintenance	3
AVMT	1102	Aircraft Regulations & Publications	3
AVMT	1103	Aviation Shop Practices	3
INFO	1100	Computer Concepts & Applications	3
MATH	1101	Applied Technical math (FAA required)	3
			15

FRESHMAN SECOND SEMESTER

AVMT	1105	Aircraft Utility Systems	3
AVMT	1109	Aviation Electronics Aircraft	3
AVMT	2201	Reciprocating Engines & Systems	3
AVMT	2202	Aircraft Sheet Metal	3
ENGL	1104	Written English I	3
			15

FRESHMAN SUMMER 1

AVMT	2204	Aircraft Propeller & Control Systems	3
- or -			
AVMT	2206	Aircraft Fluid Power & Landing Gear	3

FRESHMAN SUMMER 2

AVMT	2204	Aircraft Propeller & Control Systems	3
- or -			
AVMT	2206	Aircraft Fluid Power & Landing Gear	3

SOPHOMORE FIRST SEMESTER

AVIO	1110	Aircraft Power Generation & Distribution	3
AVMT	2203	Recip. Engine Maint. & Return to Service	5
AVMT	2205	Turbine Engines & Systems	3
AVMT	2209	Airframe Inspection & Flight Control Syst.	3
ENGL	1109	Technical Report Writing	3
			17

SOPHOMORE SECOND SEMESTER

AVMT	1106	Aircraft Information Systems	3
AVMT	2207	Turbine Engine Maintenance & Inspection	3
AVMT	2208	Cabin Atmosphere Control System	3
AVMT	2210	Non-Metallic Structures	3
Social Science Elective			3
			15

SOPHOMORE SUMMER 1

AVMT	2299	FAA Capstone Review Class	3

SOPHOMORE SUMMER 2

AVMT	2299	FAA Capstone Review Class	3

Notes to Degree Plan:
1.) The AVMT 2299 FAA Capstone Review Class is offered both Summer 1 and Summer 2 of each year to prepare second-year AMT Majors for taking the FAA written, oral and practical A & P certification exams. This class, while highly recommended, is not an FAA certificate requirement.
2.) All First Semester classes (AVMT 1101, 1102, & 1103) are pre-requisites for all subsequent classes.
3.) MATH 1101 is a requirement of the FAA Part 147 curriculum and a co-requisite of all subsequent classes.

AVIATION TECHNOLOGY

■ Pieter H. Blood
119 National Aerospace Education Center, Bridgeport, WV 842-8300
pblood@fairmontstate.edu

The Bachelor of Science in Aviation Technology is offered to students whose career objective is the management and operation of airside activities in the aviation industry. The program provides the graduate with technical competence in an aviation related career as well as the skills needed to assume supervisory responsibilities. There are three areas of specialization in this degree: Aviation Administration with a Flight option, Aviation Maintenance Management, and Aviation Administration with Management Option.

• Aviation Common Core ..... 27-30 sem. hrs.

AVMA	3301	Aviation History	3
AVMA	3302	Aviation Law	3
AVMA	3303	Airline Operations	3
AVMA	3304	Aviation Maintenance Management	3
AVMA	3305	General Aviation Operations	3

AVMA	3307	Aviation Safety	3
AVMA	4402	Fiscal Aspects of Aviation Management	3
MANF	*2250	Total Quality and SPC	3
MGMT	2209	Principles of Management	3
MGMT	3390	Human Behavior in Organizations	3

**Not required for the Aviation Maintenance Management Option*

AVIATION ADMINISTRATION ..... 133 sem. hrs.

This option prepares the student for employment in administrative areas with companies in and related to the aviation industry. Typical positions include airport manager, flight dispatcher, flight scheduler, crew coordinator, air cargo administration, aviation marketing, air traffic controller, and on line management.

- Aviation Common Core ..... 30 sem. hrs.
- Technical Specialty Courses..... 76 sem. hrs.
- Additional Liberal Studies Courses..... 21 sem. hrs.

Technical Specialty Courses and General Studies

ACCT	2201	Principles of Accounting	3
AVMA	1100	Aircraft Flight Theory	3
AVMA	1102	Introduction to Air Traffic Control	3
AVMA	2210	Aviation Meteorology	3
AVMA	2211	Airport Management	3
AVMA	2213	Airport Planning and Development	3
AVMA	2214	Advanced Air Traffic Control	3
BUSN	3310	Business Statistics	3
ECON	2200	Economics	3
ENGL	1104	Written English I	3
ENGL	1108	Written English II	3
ENGL	1109	Technical Report Writing	3
INFO	1100	Computer Concepts	3
COMP	1101	Applied Technical Programming	3
MKTG	2204	Marketing	3
MATH	1101	Applied Technical Mathematics I	3
MATH	1102	Applied Technical Mathematics II	3
MGMT	4405	Operations Management	3
PHED	1100	Physical Education & Wellness	2
PSYC	1101	Introduction to Psychology	3
PHYS	1101	Introduction to Physics	4
PHYS	1102	Introduction to Physics	4
SFTY	1100	Safety& Envir. Components of Industry	3
SFTY	1150	Safety Mgt. and Concepts in Accident Prevention	3
Society/Human Interactions Elective			3
SPCH	3369	Communication in Organizations	
- or -			
AVMA	2206	Aviation Security	3
Aviation Electives			9

FLIGHT OPTIONS:

Students will substitute the following courses in lieu of AVMA 1100, 2210, and 3399 for a Flight Option in the Aviation Administration degree.

AVMA	1101	Private Pilot Technology	3
AVMA	2201	Instrument Pilot Technology	3
AVMA	3300	Commercial Pilot Technology	3

**Flight Fees for students to obtain their private, commercial, or instrument license must be paid during the semester in which you enroll in the class.*

AVIATION ADMINISTRATION MINOR ..... 21 sem. hrs.

AVMA	1100	Aircraft Flight Theory	3
AVMA	1102	Introduction to Air Traffic Control	3
AVMA	2211	Airport Management	3
AVMA	3303	Airline Operations	3
AVMA	3305	General Aviation Operations	3

Select two courses from the following:

AVMA	2213	Airport Planning and Development	3
AVMA	3301	Aviation History	3
AVMA	3302	Aviation Law	3
AVMA	3307	Aviation Safety	3
AVMA	4401	Trends & Current Issues in Aviation	3

FLIGHT MINOR ..... 18 sem. hrs.

AVMA	1101	Private Pilot Technology	3
AVMA	3301	Aviation History	3
AVMA	3302	Aviation Law	3
AVMA	3305	General Aviation Operations	3

Select two courses from the following:

AVMA	2211	Airport Management	3
AVMA	2213	Airport Planning and Development	3
AVMA	2214	Advanced Air Traffic Control	3
AVMA	3303	Airline Operations	3
AVMA	3307	Aviation Safety	3

AVIATION MAINTENANCE MANAGEMENT ..... 136 sem. hrs.

This option prepares the student for entry level management positions in the maintenance field with airlines, aviation manufacturers, repair stations, and fixed based operators. All graduates must have obtained the FAA Airframe and Powerplant License or Director approval. This program is approved by the Federal Aviation Administration and meets the requirements of Federal Aviation Regulation 147.

- Aviation Common Core ..... 27 sem. hrs.
- Technical Specialty Courses..... 88 sem. hrs.
- Additional Liberal Studies Courses..... 21 sem. hrs.

Technical Specialty Courses

AVMT	1101	Intro. to Aviation Maintenance	3
AVMT	1102	Aircraft Regulations & Publications	3
AVMT	1103	Aviation Shop Practices	3
AVMT	1105	Aircraft Utility Systems	3
AVMT	1106	Aircraft Information Systems	3
AVMT	1109	Aircraft Electronics	3
AVMT	2201	Reciprocating Engines and Systems	3
AVMT	2202	Aircraft Sheet Metal Structures	3
AVMT	2203	Reciprocating Engine Maintenance and Return to Service	5
AVMT	2204	Propeller Systems	3
AVMT	2205	Turbine Engines and Systems	3
AVMT	2206	Aircraft Fluid Power Landing Gear Systems	3
AVMT	2207	Turbine Engine Maintenance and Return to Service	3
AVMT	2208	Cabin Atmosphere Control Systems	3
AVMT	2209	Aircraft Flight Control Systems	3
AVMT	2210	Non Metallic Structures	3
AVMA	4404	Advanced Composite Structures	
- or -			

AVMA	4405	Advanced Non Destructive Testing	3
Aviation Elective			3
AVIO	1110	Aircraft Power Generation and Distribution Systems	3
ECON	2200	Economics	3
ENGL	1109	Technical Report Writing	3
COMP	1101	Applied Technical Programming	3
MATH	1101	Applied Technical Mathematics I	3
MATH	1102	Applied Technical Mathematics II	3
PHYS	1101	Introduction to Physics I	4
PHYS	1102	Introduction to Physics II	4
PSYC	1101	Introduction to Psychology	3
SOCY	1110	Introductory Sociology	3

AVIONICS MINOR* ..... **20 sem. hrs.**

AVIO	1102	Principles of Radio Transmitters and Receivers	3
AVIO	2200	Electronic Flight Management Systems	3
AVIO	2202	Instrument Landing Systems	3
AVIO	2204	Aircraft Navigation Systems	3
AVIO	2206	Aircraft Communication Systems	3
AVIO	2209	Aircraft Pulse and Radar Systems	3
AVIO	2210	FCC License Preparation	2

** Restricted to Electronics Engineering Technology Majors*

BALLROOM DANCING CERTIFICATE PROGRAM

(Skill Set Certificate)

■ **Dr. Michael Fulda, Professor and Program Coordinator**
110 Hardway Hall / 367-4674
mfulda@fairmontstate.edu

This certificate of completion program is offered Pierpont Community & Technical College and consists of courses totaling 20 credit hours providing background, performance and instruction skills in the art of ballroom social dancing. This certificate will prepare students to further earn a teaching or performance certificate accredited by the US Imperial Society of Teachers of Dancing (ISTD) granted by passing examinations of theory and tests of proficiency in front of a visiting licensed examiner.

REQUIRED COURSES:

- **Ballroom Dancing Certificate Program** ..... **20 sem. hrs.**

DANC	1100	Introduction to Social Ballroom Dancing*	2
DANC	1107	Introduction to Dance*	2
DANC	1110	Ballroom Dancing Culture and Behavior	1
DANC	1120	Ballroom Dancing Stage Craft	1
DANC	1130	Ballroom Dancing Rhythm and Repertoire	1
DANC	1140	Ballroom Dancing Instruction Practicum	3
DANC	1150	Ballroom Dancesport Bronze Level	2
DANC	2200	Ballroom Dancesport Silver Level	2
DANC	2230	Ballroom Dancesport Competition Judging	1
DANC	2250	Ballroom Dancesport Gold Level	2
DANC	2270	Ballroom Dancing Competitive Experience	3

** Student may test out*

BOARD OF GOVERNORS

(Associate in Applied Science Degree)

■ **Jan Williams, Program Coordinator/Advisor**
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The Board of Governors A.A.S. Degree offers busy adults an opportunity to complete a two year college degree with a technical or occupational focus. It is a flexible degree plan that can help adults achieve their educational goals and save students both dollars and hours by awarding college credit for documented work and life-learning experiences. The educational plan can be individualized and the pace of completion set by the student. There is no special fee for enrollment in this program but a special application form is required. Students will work closely with the Program Coordinator in planning and completing this special degree program.

- **Board of Governors** *(with minimum 2.00 GPA)* ..... **60 sem. hrs.**
- **Component I - General Education*** ..... **21 sem. hrs.**

Communications	6
Mathematics/Science	6
Computer Literacy	3
Social Sciences	6

- **Component II - General Electives** ..... **39 sem. hrs.**

This component may consist of credit hours from the following options: electives; area of emphasis with technical or occupational focus (minimum 15 hours required); portfolio development and submission (tied to existing courses); CLEP and DANTES exams, military credits, challenge exams, and/or special assessment of licensure/certifications or formal training programs. There is a fee attached to evaluation of portfolio and standardized awards.

** Course options for completion of general education core:*

COMMUNICATIONS:
English 1104, 1108, 1109; Speech 1100

MATHEMATICS AND/OR SCIENCES:
Math 1107, 1111, 1112; Science 1199, Biology 1105, Chemistry 1101, 1110, Physics 1101, Geology 1101

COMPUTER LITERACY:
Information Systems 1100, CS 1100, CS 1101

SOCIAL SCIENCES:
History 1107, 1108, 2211, 2212, 2213, Sociology 1100; Po Sci 1103; Psychology 1101; Geography 2210; Economics 2200

Special Notes:

1.) This program is available to students who have graduated from high school two or more years prior to enrollment. For those students who earned their GED certificate, it must be two years from the date their class would have graduated.
2.) To fulfill residency requirements a minimum of 12 credit hours must be completed from a regionally accredited higher educational institution.
3.) A minimum of 15 credit hours are required for an Area of Emphasis (optional). For more information on approved areas of emphasis, contact the Coordinator.
4.) Students desiring to submit portfolio(s) for credit evaluation

must meet with the Program Coordinator for direction and must be enrolled in the program.

5.) Students seeking college credit for certifications/licenses/training approved by the State Board of Governors Degree Program must meet with the Program Coordinator and provide official copies of certifications/licenses/training.

6.) The BOG degree will articulate with the WV Regents Bachelor of Arts Degree.

BUSINESS TECHNOLOGY

(Associate of Applied Science)

■ Nancy Lawler
127 Colebank Hall / 367-4731
nlawler@fairmontstate.edu

■ Donna Snyder
131 Colebank Hall / 367-4188
dsnyder@fairmontstate.edu

The A.A.S. degree in Business Technology is designed to offer students two areas of concentration: Accounting and General Business.

The objective of the associate degree program in business is twofold: (a) to provide individuals with an opportunity to develop job-related skills while concurrently increasing awareness of their roles and responsibilities toward society and their profession, and (b) to meet the educational needs of the community by helping meet the requirements for trained manpower in the service region of Fairmont State. Specifically, the program is designed to allow students to select from associate degree program options that will provide them with the necessary skills to function professionally in the area(s) selected or to continue their studies in a four year program.

- **Business Technology ..... 66 sem. hrs.**
- **Required Core Courses ..... 42 sem. hrs.**

ACCT	2201	Principles of Accounting I	3
ACCT	2202	Principles of Accounting II	3
BUSN	1102	Introduction to Business	3
BUSN	1141	Business Mathematics	3
BUSN	2210	Human Relations in Business	3
BUSN	2251	Corporate Communications	3
ECON	2201	Economic Principles and Problems I	3
ENGL	1104	Written English I	3
ENGL	1109	Technical Report Writing	3
FINC	2201	Introduction to Financial Management	3
FINC	2230	Financial Literacy	3
INFO	1100	Computer Concepts and Applications	3
INFO	2235	Microcomputer Applications in Business	3
SPCH	1100	Introduction to Speech Communication	3

ACCOUNTING SPECIALIZATION

- **Business Core ..... 42 sem. hrs.**
- **Required Courses ..... 18 sem. hrs.**
- **Business Technology Electives ..... 6 sem. hrs.**

ACCT	2215	Managerial Accounting	3
ACCT	2216	Income Tax Procedures	3
ACCT	2217	Concepts of Computerized Accounting (Quickbooks)	3
ACCT	2242	Professional Internship & Portfolio Development	3
ACCT	2290	Specialized Accounting Topics	3
INFO	2220	Spreadsheet Design	3

Select an additional 6 hours from the following:

BUSN	2205	Small Business Fundamentals	3
INFO	2200	Fundamentals of Information Systems	3
MGMT	2214	Office Management	3
OFAD	1100	Microcomputer Keyboarding	3
OFAD	2248	Business Essentials	3
Elective (Advisor approval required)			3

MODEL SCHEDULE ..... 66 sem. hrs.

FRESHMAN FIRST SEMESTER

ACCT	2201	Principles of Accounting I	3
BUSN	1102	Introduction to Business	3
ECON	2201	Economic Principles & Problems I	3
ENGL	1104	Written English I	3
INFO	1100	Computer Concepts & Applications	3
			15

FRESHMAN SECOND SEMESTER

ACCT	2202	Principles of Accounting II	3
BUSN	1141	Business Math	3
ENGL	1109	Technical Report Writing	3
FINC	2201	Introduction to Financial Management	3
BUSN	2210	Human Relations in Business	3
			15

SOPHOMORE FIRST SEMESTER

ACCT	2215	Managerial Accounting	3
ACCT	2217	Concepts of Computerized Accounting (Quickbooks)	3
BUSN	2251	Corporate Communications	3
FINC	2230	Financial Literacy	3
INFO	2235	Microcomputer Applications in Business	3
Business Technology Elective			3
			18

SOPHOMORE SECOND SEMESTER

ACCT	2216	Income Tax Procedures	3
ACCT	2242	Professional Internship & Portfolio Development	3
ACCT	2290	Specialized Accounting Topics	3
INFO	2220	Spreadsheet Design	3
SPCH	1100	Introduction to Speech Communication	3
Business Technology Elective			3
			18

GENERAL BUSINESS SPECIALIZATION

- **Business Core ..... 42 sem. hrs.**
- **Required Courses ..... 12 sem. hrs.**
- **Business Technology Electives ..... 12 sem. hrs.**

BUSN	2205	Small Business Fundamentals	3
ECON	2202	Economic Principles & Problems II	3
MKTG	2204	Principles of Marketing	3
MGMT	2209	Principles of Management	3

Select an additional 12 hours from the following:

INFO	2200	Fundamentals of Information Systems	3
INFO	2220	Spreadsheet Design	3
INFO	2225	Fundamentals of Web Design	3
MGMT	2214	Office Management	3
MKTG	2205	Salesmanship & Sales Management	3
OFAD	2233	Database Applications	3
OFAD	2248	Business Essentials	3
Elective (Advisor Approval Required)			3

MODEL SCHEDULE ..... 66 sem. hrs.

FRESHMAN FIRST SEMESTER

ACCT	2201	Principles of Accounting I	3
BUSN	1102	Introduction to Business	3
BUSN	1141	Business Math	3
ECON	2201	Economic Principles & Problems I	3
ENGL	1104	Written English I	3
			15

FRESHMAN SECOND SEMESTER

ACCT	2202	Principles of Accounting II	3
ECON	2202	Economic Principles & Problems II	3
ENGL	1109	Technical Report Writing	3
INFO	1100	Computer Concepts & Applications	3
MGMT	2209	Principles of Management	3
			15

SOPHOMORE FIRST SEMESTER

BUSN	2210	Human Relations in Business	3
FINC	2201	Introduction to Financial Management	3
MKTG	2204	Principles of Marketing	3
SPCH	1100	Introduction to Speech Communication	3
Business Technology Elective			3
Business Technology Elective			3
			18

SOPHOMORE SECOND SEMESTER

BUSN	2251	Corporate Communications	3
BUSN	2205	Small Business Fundamentals.	3
FINC	2230	Financial Literacy	3
INFO	2235	Microcomputer Applications in Business	3
Business Technology Elective			3
Business Technology Elective			3
			18

CAD (COMPUTER AIDED DESIGN)

(Skill Set)

■ Jerry Bacza
322D Turley Center / (304) 367-4632
gbacza@fairmontstate.edu

The Drafting/Design Engineering Technology program is offering a unique opportunity for students to gain introductory/intermediate level skills and knowledge in the area of Computer Aided Drafting (CAD). A CAD skill set would consist of five courses from the current AAS Drafting/Design Engineering Technology program. This training could be used for entry-level employment or to further develop skills and knowledge related to a student's current major.

The CAD training may serve as a stand-alone educational program. Some students will find that the knowledge and skills learned through the certificate requirements meet their educational and/or career needs. Other students can use the CAD program to explore potential choices for a major, or as the basis for a step-up program, completing additional courses for an associate degree or baccalaureate degree. This CAD certificate could be used to supplement degrees in Architecture, Aviation, Civil, Electronics, Mechanical, Graphics, Applied Design and Information Systems. These five courses will progress a student from the two dimensional working drawings to three dimensional models using a variety of software such as AutoCAD, Architectural Desktop, Mechanical Desktop and Inventor. All of these software packages are part of the AutoDesk Campus Site License at Fairmont State.

• Required Courses: ..... 16 sem. hrs.

DRFT	2200	Fundamentals of CAD	3
DRFT	2205	Introduction to Solid Modeling	3
DRFT	2215	Architectural Drafting	4
DRFT	2235	Technical Drafting	3
DRFT	2245	Architectural Design	3

CIVIL ENGINEERING TECHNOLOGY

(Associate of Science)

(See Fairmont State University)

CLASSROOM TEACHER'S AIDE

(Skill Set)

■ Kristie Latocha, Program Coordinator
137 Education Building / (304) 367-4919
klatocha1@fairmontstate.edu

This is a 6-hour skill set in Classroom Teacher's Aide. This certificate will satisfy the West Virginia Department of Education's qualifications for Teacher Aide III. Person's who desire employment as teacher's aide in both elementary and early childhood classrooms will be potential students enrolling in this program. Also current Teacher Aides II will be interested in this training as it will qualify them for promotion and pay increase as Teacher's Aide III. The intent of a prescribed curriculum is to provide a pathway from aide to teacher through a step process that begins with certificates earned through the Community and Technical Colleges. In this manner, the potential teacher can earn a certificate, meeting state requirements for college credit, at various levels that will build towards an associate and or a bachelor degree.

• Required Courses ..... 6 sem. hrs.

EDUC	2200	Introduction to Education	3
EDUC	2220	Exceptionality in Special Education	3

CLASSROOM TEACHING ASSISTANT

(Skill Set)

■ Kristie Latocha, Program Coordinator
137 Education Building / (304) 367-4919
klatocha1@fairmontstate.edu

This program is an 18-hour skill set in for Teaching Assistant. This certificate will satisfy the West Virginia Department of Education's qualifications for Teacher Aide IV. Person's who desire employment as teacher's aide in both elementary and early childhood classrooms will be potential students enrolling in this program. Also current Teacher Aides III will be interested in this training as it will qualify them for promotion and pay increase as Teacher's Aide IV. The intent of a prescribed curriculum is to provide a pathway from aide to teacher through a step process that begins with certificates earned through the Community and Technical Colleges. In this manner, the potential teacher can earn a certificate, meeting state requirements for college credit, at various levels that will build towards an associate and or a bachelor degree.

• Required Courses ..... 18 sem. hrs

EDUC	2200	Introduction to Education	3
EDUC	2220	Exceptionality in Special Education	3
ENGL	1104	Written English I	3
INFO	1100	Computer Concepts & Applications	3
INTR	1100	Race, Class, and Gender	3
SPCH	1100	Intro to Speech Communication	3

MODEL SCHEDULE ..... 18 hrs.

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
SPCH	1100	Speech Communications	3
EDUC	2200	Introduction to Education	3
			9

SPRING SEMESTER

INFO	1100	Computer Concepts and Applications	3
INTR	1100	Race, Class, Gender	3
EDUC	2220	Exceptionality in Special Education	3
			9

CRIMINAL JUSTICE

(Associate of Applied Science)

■ Les Boggess, Associate Professor & Program Coordinator
315 Hardway Hall / (304) 367-4678
lboggess@fairmontstate.edu

The criminal justice program at Pierpont Community & Technical College provides students with a broad orientation to the entire system of criminal justice. In order to provide for persons with various backgrounds, career aspirations, etc., the program allows students (with advisor assistance and approval) some flexibility in structuring the curriculum to meet their individual interests and needs.

Places of employment:
- Local, county, and state governments
- Industrial commercial coordinators
- Security agencies
- Social service agencies

Types of jobs:
- Police officers
- Correctional officers
- Security/loss prevention
- Private investigators

• Criminal Justice ..... 65 sem. hrs.
• General Studies Courses ..... 30 sem. hrs.

ENGL	1104	Written English I	3
ENGL	1108	Written English II	3
- or -			
ENGL	1109	Technical Report Writing	3
INFO	1100	Computer Concepts and Applications	3
POLI	1103	American Government	3
PSYC	1101	Introduction to Psychology	3
PSYC	2250	Community Psychology	3
SOCY	1110	Introductory Sociology	3
SOCY	2200	Social Problems	3
SPCH	1100	Speech Communication	3
Math or Science General Studies Course			3

• Criminal Justice Required Courses ..... 18 sem. hrs.

CRJU	1100	Introduction to Criminal Justice	3
CRJU	1101	Police Operations	3
CRJU	2202	Principles of Criminal Law I	3
CRJU	2206	Introduction to Corrections	3
CRJU	2212	Abnormal Behavior and Crisis Intervention	3
CRJU	2240	Adjudication Process	3

• Criminal Justice Elective Courses ..... 12 sem. hrs.

CRJU	1199	Special Topics	1-6
CRJU	2204	Police Defense Tactics	1
CRJU	2205	Natural Resource Laws	3
CRJU	2209	Firearms	3
CRJU	2215	Introduction to Private Security	3
CRJU	2218	Police Administration	3
CRJU	2220	Juvenile Justice Process	3
CRJU	2226	Crime Scene Investigation	3
CRJU	2236	Criminal Investigation	3
CRJU	2246	Criminal Evidence	3
CRJU	2255	Law of Corrections	3
CRJU	2256	Homicide Investigation	3
CRJU	2266	Sex Crimes	3
General Electives			5

MODEL SCHEDULE Criminal Justice ..... 65 Sem. hrs.

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
POLI	1103	American Government	3
PSYC	1101	Intro to Psychology	3
SOCY	1110	Intro to Sociology	3
CRJU	1100	Intro to Criminal Justice	3
			15

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II, OR	
ENGL	1109	Technical Report Writing	3
PSYC	2250	Community Psychology	3
SOCY	2200	Social Problems	3
CRJU	1101	Police Operations	3
CRJU	2202	Principles of Criminal Law	3
			15

SOPHOMORE FIRST SEMESTER

SPCH	1100	Intro to Speech Communication	3
Math or Science			3
CRJU	2206	Intro to Corrections	3
CRJU	2212	Abnormal Behavior & Crisis Intervention	3
CRJU Elective			3
General Elective			3
			18

SOPHOMORE SECOND SEMESTER

General Elective			2
CRJU	2240	Adjudication	3
INFO	1100	Comp Concepts	3
CRJU Elective			3
CRJU Elective			3
CRJU Elective			3
			17

COMPUTER FORENSICS CERTIFICATE

(See Fairmont State University)

INTELLIGENCE RESEARCH & ANALYSIS CERTIFICATE

(See Fairmont State University)

DRAFTING/DESIGN ENGINEERING TECHNOLOGY

(Associate of Applied Science)

■ Jerry Bacza
322D Turley Center / (304) 367-4632
gbacza@fairmontstate.edu

REQUIRED COURSES

• Drafting/Design Engineering Technology ..... 65 sem. hrs.
(TAC of ABET Accredited)

DRFT	1100	Engineering Graphics	3
DRFT	2200	Fundamentals of CAD	3
DRFT	2205	Introduction to Solid Modeling	3
DRFT	2215	Architectural Drafting	4
DRFT	2225	Descriptive Geometry	3
DRFT	2235	Technical Drafting	3
DRFT	2245	Architectural Design	3
DRFT	2255	Tool Design	4
ECON	2200	Introduction to Economics	3
ENGL	1104	Written English I	3
ENGL	1109	Technical Report Writing	3
INFO	1100	Computer Concepts and Applications	3
- or -			
COMP	1101	Applied Technical Programming	3
MATH	1101	Applied Technical Math I	3
MATH	1102	Applied Technical Math II	3
MANF	1100	Materials and Processes	3
PHYS	1101	Introduction to Physics	4
PHYS	1102	Introduction to Physics	4
SPCH	1100	Speech Communication	3
TECH	2290	Engineering Analysis I	4
TECH	Elective		3

MODEL SCHEDULE ..... 65 Sem. hrs.

FRESHMAN FIRST SEMESTER

MATH	1101	Applied Technical Math I	3
DRFT	1100	Engineering Graphics	3
DRFT	2200	Fundamentals of CAD	3
ENGL	1104	Written English I	3
MANF	1100	Materials & Processes	3
			15

FRESHMAN SECOND SEMESTER

MATH	1102	Applied Technical Math II	3
DRFT	2235	Technical Drafting	3
ENGL	1109	Technical Report Writing	3
INFO	1100	Comp. Concepts & Applications	3
- or-			
COMP	1101	App. Tech. Program.	3
SPCH	1100	Intro. to Speech Communications	3
			15

SOPHOMORE FIRST SEMESTER

PHYS	1101	Intro. to Physics I	4
DRFT	2205	Intro. to Solid Modeling	3
DRFT	2225	Descriptive Geometry	3
ECON	2200	Economics	3
DRFT	2215	Architectural Drafting	4
			17

SOPHOMORE SECOND SEMESTER

PHYS	1102	Intro. to Physics II	4
TECH	2290	Engineering Analysis I	4
DRFT	2245	Architectural Design	3
DRFT	2255	Tool Design	4
TECH Elective			3
			18

EARLY CHILDHOOD

(Associate of Applied Science)

■ Nancy Cheshire
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ncheshire@fairmontstate.edu

The Early Childhood Associate of Applied Science Degree includes the study of the growth and development of young children as well as the planning, preparation and implementation of appropriate curriculum for quality early childhood programs. Students have the opportunity to gain practical experience working with children at the campus Laboratory Preschool and in early childhood programs within the community.

The program prepares individuals to work in child care centers, Head Start Centers, and private preschools or nursery schools. Some graduates are employed in private homes as a nanny or in public schools as a paraprofessional. Other employment opportunities include positions in public and private organizations providing services for children.

Early Childhood students are required to meet all West Virginia Licensing Requirements for Child Care employees including a physical examination, tuberculosis test, valid food handler's card, two written references, first aid and CPR training and criminal background record check.

• Early Childhood ..... 64 sem. hrs.

EDUC	2220	Areas of Exceptionality in Special Education	3
ENGL	1104	Written English I	3
ENGL	1108	Written English II	3
		(PR: ENGL 1104 with a grade of "C" or better)	
EC	1105	Development of Young Children	3
EC	1106	Health and Safety in Early Childhood Programs	2
EC	1107	Early Childhood Curriculum	3
EC	1130	Foundations of Early Childhood	3
EC	2206	The Child in the Family	3
EC	2230	Classroom Strategies	3
EC	2231	Administration of Early Childhood Programs	3
EC	2232	Early Childhood Practicum I	3
EC	2240	Infant and Toddler Development	3
EC	2262	Early Childhood Practicum II	4
EC	2283	Cognitive Development	3
FOSM	1120	Nutrition in Childhood & Adolescence	3
FOSM	2200	Introduction to Foods	3
HUSV	1103	Community Service Learning	1

INFO	1100	Computer Concepts and Applications	3
INTR	1100	Race, Class, and Gender	3
SOCY	1110	Introductory Sociology	3
LIBS	2209	Library Materials for Children	3
General Studies Elective			3

MODEL SCHEDULE ..... 64 sem. hrs.

FRESHMAN FIRST SEMESTER

EC	1106	Health and Safety in EC*	2
EC	1130	Foundations in EC*	3
ENGL	1104	Written English I	3
INTR	1100	Race, Class and Gender	3
INFO	1100	Computer Concepts & App.	3
HUSV	1103	Community Service Learning	1
			15

FRESHMAN SECOND SEMESTER

EC	1105	Dev. of Young Children*	3
EC	1107	EC Curriculum*	3
ENGL	1108	Written English II	3
FOSM	1120	Nutrition in Childhood & Adolescence	3
SOCY	1110	Introductory Sociology	3
			15

SOPHOMORE FIRST SEMESTER

EC	2230	Classroom Strategies*	3
EC	2232	EC Practicum I*	3
EC	2240	Infant/Toddler Development*	3
EC	2283	Cognitive Development*	3
EDUC	2220	Areas of Exceptionality	3
FOSM	2200	Introduction to Foods	3
			18

SOPHOMORE SECOND SEMESTER

EC	2206	The Child in The Family*	3
EC	2231	Administration of EC Programs*	3
EC	2262	EC Practicum II*	4
LIBS	2209	Library Materials/Children*	3
General Studies Elective			3
			16

** Offered only in semester listed*

Notice to all students:

1.) It is the responsibility of the student to meet the academic advisor to schedule all courses for the completion of this degree. Failure to seek assistance of an advisor may delay graduation.

2.) Permission is required to carry over 18 hours per semester. To be eligible, the student must be graduating or have a 3.00 GPA. Hours may not exceed 25 in any semester.

3.) The semester before planned graduation, the student should schedule a Senior Evaluation through the Registrar's office and must apply for graduation before the deadline as stated in the current college catalog.

4.) Students are reminded to review campus policies and procedures as stated in the college catalog.

EARLY CHILDHOOD PRACTITIONER: OCCUPATIONAL DEVELOPMENT DEGREE

■ Nancy Cheshire
137 Education Building / 367-4588
ncheshire@fairmontstate.edu

- **Total Degree Requirement ..... 64 sem. hrs.**
- **General Studies Component I ..... 21 sem. hrs.**

The following courses are required:

ENGL	1104	Written English I	3
ENGL	1108	Written English II *(PR: "C" in ENGL 1104)*	3
INFO	1100	Computer Concepts & Applications	3
MATH	1107	Fundamental Concepts of Mathematics	3

Select three courses from the following:

PSYC	1101	Introduction to Psychology I	3
SOCY	1110	Introductory Sociology	3
SPCH	1100	Intro. to Speech Communication	3
INTR	1100	Race, Class and Gender	3
INTR	2280	Empowering Leadership	3

- **Technical Core Component II ..... 18 sem. hrs.**

Component II consists of courses developed and delivered by the Apprenticeship for Child Development Specialist (ACDS) Program offered through, and approved by, the United States Department of Labor, or approved courses included in the Child Development Associate (CDA) education and training program under the auspices of an agency or organization with expertise in early childhood teacher preparation. The courses will be converted to college credit hours at the usual ratio of 15:1 for lecture and at the laboratory hours/credit ratio of Pierpont Community & Technical College to a maximum of 18 credit hours. This credit will be recorded immediately prior to graduation from the college following the completion of all degree requirements, a positive completed evaluation by Pierpont Community & Technical College and the payment of the Evaluation Fee.

The following courses are required:

EC	1107	Curriculum for Early Childhood Programs	3
EC	2283	Cognitive Development	3

Select a minimum of 9 hours from the following courses:

EC	2206	The Child in the Family	3
EC	2230	Classroom Strategies	3
EC	2231	Administration of Early Childhood Programs	3
EC	2240	Infant and Toddler Development	3
LIBS	2209	Library Materials for Children	3
FOSM	1120	Nutrition in Childhood & Adolescence	3
HUSV	1103	Community Service Learning	1

- **Occupational On-the-Job Training Hours Component III ..... 10 sem. hrs.**

- or -

- **Supervised Work Based Learning**

This component consists of paid or unpaid on-the-job training provided as a component of the Apprenticeship for Child Development Specialist (ACDS) Program or Child Development Associate (CDA) Program. The on-the-job training component is to be converted to credit hours at a ratio of 160:1 to a maximum of 10 credit hours. This credit will be recorded immediately prior to graduation following the completion of all degree

requirements, a positive completed evaluation by Pierpont Community & Technical College and the payment of the Evaluation Fee.

Documentation of Completion: for Component II and Component III is made to the Early Childhood Program Coordinator by submitting a copy of the U.S. Department of Labor Apprenticeship for Child Development Specialist Certificate and a letter of completion from the U.S. Department of Labor or a copy of the Child Development Associate Certificate and a letter of completion from the organization or agency providing the training.

Residency Requirement: 15 credits of the students last course work in Components I and II must be completed at Pierpont Community & Technical College.

Evaluation Fee: An Evaluation Fee of one hundred-fifty dollars ($150.00) is required following the completion of all courses. The evaluation includes determination that all academic course work has been successfully completed and verification of Components II and III. When the evaluation is completed and all requirements have been met, then credits for Components II and III will be granted. The evaluation fee is paid at the time application for graduation is made.

EARLY CHILDHOOD TEACHER'S AIDE

(Skill Set)

■ Nancy Cheshire
137 Education Building / 367-4588
ncheshire@fairmontstate.edu

This is a 6-hour skill set in Early Childhood Teaching Aide. This certificate will satisfy the West Virginia Department of Education's qualifications for Teacher Aide III. People who desire employment as teacher's aide in both elementary and early childhood classrooms will be potential students enrolling in this program. Also current Teacher Aides II will be interested in this training as it will qualify them for promotion and pay increase as Teacher's Aid III. The intent of a prescribed curriculum is to provide a pathway from aide to teacher through a step process that begins with certificates earned through the Community and Technical Colleges. In this manner, the potential teacher can earn a certificate, meeting state requirements for college credit, at various levels that will build towards an associate and/or a bachelor degree. The certificate in Early Childhood Teaching Aide will lead seamlessly towards an associate degree in Early Childhood, without loss of credit and with a focused curriculum.

REQUIRED COURSES:

• Early Childhood Teaching Aide ..... 6 sem. hrs.

EC	1106	Health and Safety in Early Childhood	2
EC	1107	Early Childhood Curriculum	3
EMMS	1199	Pediatric First Aid / CPR	1

Substitution may be made for an EC course upon approval by Program Coordinator.

EARLY CHILDHOOD TEACHING ASSISTANT

(Skill Set)

■ Nancy Cheshire
137 Education Building / 367-4588
ncheshire@fairmontstate.edu

This is an 18-hour skill set in Early Childhood Teaching Assistant. This certificate will satisfy the West Virginia Department of Education's qualifications for Teacher Aide IV. Person's who desire employment as teacher's aide in both elementary and early childhood classrooms will be potential students enrolling in this program. Also current Teacher Aides III will be interested in this training as it will qualify them for promotion and pay increase as Teacher's Aid IV. The intent of a prescribed curriculum is to provide a pathway from aide to teacher through a step process that begins with certificates earned through the Community and Technical Colleges. In this manner, the potential teacher can earn a certificate, meeting state requirements for college credit, at various levels that will build towards an associate and/or a bachelor degree. The certificate in Early Childhood Teaching Assistant will lead seamlessly towards an associate degree in Early Childhood, without loss of credit and with a focused curriculum.

REQUIRED COURSES:

• Early Childhood Teaching Assistant ..... 18 sem. hrs.

EC	1106	Health and Safety in Early Childhood	2
EC	1107	Early Childhood Curriculum	3
EC	2230	Classroom Strategies	3
EC	2283	Cognitive Development	3
EDUC	2220	Exceptionality in Special Education	3
ENGL	1104	Written English I	3
EMMS	1199	Pediatric First Aid / CPR	1

Substitution may be made for an EC course upon approval by Program Coordinator.

ELECTRONICS ENGINEERING TECHNOLOGY

(Associate of Science)

(See Fairmont State University)

EMERGENCY MEDICAL SERVICES

(Associate of Applied Science)

■ Robert Andrew, Program Coordinator
214 Merchant Street / 367-4847
randrew@fairmontstate.edu

Emergency Medical Services play a key role in the health care delivery system in the United States by providing the appropriate basic intermediate, and advanced life support to the sick and injured in the prehospital setting. The Emergency Medical Technician is the instrument used to provide this prehospital care. The EMT's primary responsibility is to provide expert emergency medical care to victims of emergencies and to transport them safely to the appropriate facility. Most duties are performed unsupervised, in a variety of circumstances, and often under considerable physical and emotional stress.

The primary goal of the Emergency Medical Services Program at Fairmont State is to produce entry level basic, intermediate, and advanced Emergency Medical Technicians who are competent to work in career and volunteer positions within

West Virginia's health care system.

Graduates of the program possess the knowledge, skills and confidence to provide high quality emergency care to the sick and injured in their respective communities. The individual who successfully completes the Associate of Applied Science in Emergency Medical Services Program will posses these attributes and will be eligible for employment with public and private EMS providers, hospitals and aero medical services. All Applicants seeking admission to the Associate of Applied Science in Emergency Medical Services Program are required to:

1.) Meet general admission requirements of Pierpont Community & Technical College.
2.) Submit an application for admission designating associate degree Emergency Medical Services as a major field of study.
3.) Submit a resume or Statement of Activities to the Office of Admissions if the candidate is not a recent high school graduate.
4.) Submit official high school transcript or verified GED score, ACT or SAT scores if applicable; and EMS program application prior to August 1 application deadline to be considered for the first year - fall semester.
5.) Students admitted to the program must complete a physical examination, required immunizations and tests prior to participation in any EMS Practicum course.

After complying with the above steps the student must submit the following to the EMS Coordinator:

1.) An application to the Emergency Medical Services Program.
2.) Three letters of reference.
3.) A photocopy of the following certifications if held by the applicant: EMT-Basic or EMT-Paramedic and American Heart Association Provider and /or American Red Cross Professional Rescuer CPR certification.

Note:

If a student holds a current paramedic certification, the student may be eligible to earn the Associate of Applied Science in Emergency Medical Services Degree after fulfilling the general education components of the program. The equivalent evaluation is done on an individual basis taking into consideration all EMS training and related courses to the field of study.

Qualified students will be ranked according to an impartial scoring system. ACT or SAT scores; high school or college grade point average or GED score; active member of an approved West Virginia EMS agency; and college courses completed that apply to the Associate of Applied Science in EMS degree (if applicable) are considered in the evaluation process. Students who are not admitted must reapply if they wish to be considered for the next academic year.

Students must be able to travel to various clinical affiliate sites located throughout North Central West Virginia during the EMS Practicum courses. Additional mini-courses have been incorporated into the EMS 2200 courses. Participation in these courses is mandatory. Certification fees are required for State or National certification by the agencies governing these courses.

To remain in the EMS program and to be eligible to take the National Registry of EMT's Paramedic examination a minimum cumulative 2.0 grade point average is required at the end of the program and a favorable recommendation from the program faculty and medical director is required. Failure to meet any of these requirements will result in dismissal from the program. Readmission is on the basis of reapplication and reacceptance.

According to West Virginia Division of Health Legislative Rules 64 CSR 48-9 and 48-10, anyone wishing to receive certification from the West Virginia Office of Emergency Medical Services must meet and maintain the qualifications contained in this legislation. Certification will be denied or revoked to anyone not being able to meet these requirements. Contact the West Virginia Office of Emergency Medical Services at (304) 558-3956 or http://www.wvoems.org to obtain a copy of these requirements.

MODEL SCHEDULE ..... 66 sem. hrs.

FRESHMAN FIRST SEMESTER

BIOL	1170	Anatomy & Physiology	4
EMMS	1100	Introduction to EMS	2
EMMS	1103	Emergency Medical Technician Basic	7
EMMS	1104	Emergency Medical Services - Operations	2
EMMS	1106	Emergency Medical Services Practicum I	1
			16

FRESHMAN SECOND SEMESTER

HLCA	1100	Medical Terminology	3
EMMS	1108	EMS Pharmacology	3
EMMS	2207	Airway Management/Patient Assessment	2
EMMS	2208	Pathophysiology and Shock Trauma Resuscitation	3
EMMS	2209	Emergency Medical Services Practicum II	2
ENGL	1104	Written English I	3
			16

SOPHOMORE FIRST SEMESTER

EMMS	2210	Medical Emergencies	4
EMMS	2211	Emergency Medical Services Practicum III	2
ENGL	1109	Technical Report Writing *("C" or better required)*	3
INFO	1100	Computer Concepts & Application	3
MATH	1107	Fundamental Concepts of Mathematics	3
PSYC	1101	Introduction to Psychology	3
			18

SOPHOMORE SECOND SEMESTER

EMMS	2212	Medical Emergencies II	4
EMMS	2213	Special Patients & Situations	2
EMMS	2214	Emergency Medical Services Practicum IV	2
EMMS	2215	Assessment Based Management	2
SOCY	1110	Introduction to Sociology	3
Elective *(Consent of Advisor)*			3
			16

EMS SPECIALIST: OCCUPATIONAL DEVELOPMENT

(Associate of Applied Science)

Robert Andrew, Program Coordinator
214 Merchant Street / 367-4847
randrew@fairmontstate.edu

MODEL SCHEDULE ..... 72 sem. hrs.

This program includes the following components:

Component I (General Studies)

ENGL	1104	Written English I	3
ENGL	1109	Technical Report Writing *("C" or better required)*	3
MATH	1107	Fundamental Concepts	3
PSYC	1101	Introduction to Psychology I	3
SOCY	1110	Introductory Sociology	3
COMP	1100	Concepts of Computing	3
- or-			
INFO	1100	Computer Concepts and Applications	3
General Education Elective			3
			21

Component II (Technical Core)

EMMS	2202	Tech I Paramedic	8
EMMS	2203	Practicum I	2
EMMS	2204	Tech II Paramedic	8
EMMS	2205	Practicum II	2
			20

Component III (Technical Training Experience) 18

The component consists of technical courses, workshops, developed and delivered by the College and State EMS agency or approved by Department of Labor as apprenticeship training. Courses are converted to college credit hours at the usual ratio of 15:1 for lecture and at a rate consistent with the lab/credit ratio of the degree granting institution.

Component IV (On-The-Job Training) 13

On-the-job training in the occupation or supervised work based learning consists of on-the-job training, internship, or practicum performed at a business or industry setting in the occupational area. The on-the-job training component is to be converted to credit ratio of 160:1 with the maximum of 2,080 contact hours allowable. A statement of the total number of contact hours experienced through on-the-job training may be placed on the college record. This credit will be recorded immediately prior to graduation from the College.

EMERGENCY MEDICAL TECHNICIAN-PARAMEDIC (EMT-P)

(One-Year Certificate)

■ Robert Andrew, Program Coordinator
214 Merchant Street / 367-4847
randrew@fairmontstate.edu

MODEL SCHEDULE ..... 36 sem. hrs.

SUMMER TERM (JUNE) 5 WEEKS

EMMS	1100	Introduction to EMS	2
EMMS	1104	EMS-Operations	2
EMMS	1106	EMS-Practicum I (44 hours)	1
			5

FRESHMAN FIRST SEMESTER

EMMS	1108	EMS Pharmacology	3
EMMS	2207	Airway Management / Patient Assessment	2
EMMS	2208	Shock Trauma Resuscitation	3
EMMS	2209	EMS Practicum II (116 Hours)	2
EMMS	1199	EMS Practical Lab II	2
* Basic Trauma Life Support Provider Course			1
			13

FRESHMAN SECOND SEMESTER

EMMS	2210	Medical Emergencies I	4
EMMS	2211	EMS Practicum III (120 Hours)	2
EMMS	2212	Medical Emergencies II	4
* Advanced Cardiac Life Support Provider Course			1
* Pediatric Advanced Life Support Provider Course			1
			12

SUMMER TERM (MAY) 5 WEEKS

EMMS	2213	Special Situations	2
EMMS	2214*	EMS Practicum IV (112 Hours)	2
EMMS	2215	Assessment Based Management	2
			6

** EMS Practicum IV will be over both summer terms (May thru July) 10 weeks*

NREMT-P EXAM (July)

• Total Program Hours ..... 36 sem. hrs.

Admission Procedures

1.) Meet the general admission requirements of Pierpont Community & Technical College
2.) Submit an application for admission designating One-Year Certificate in Emergency Medical Services as major field of study.
3.) Submit a resume to the Office of Admissions if the candidate is not a recent high school graduate.
4.) Submit official high school transcript or verified GED score, ACT or SAT scores if applicable; and EMS program application prior to January 1 application deadline.
5.) Students admitted to the program must complete a physical examination and required immunizations prior to participation in any EMS Practicum course.
6.) Submit two letters of reference to the EMS Coordinator.

Prerequisites

1.) Current Healthcare Provider CPR Card
2.) Current EMT-Basic Card (NREMT and/or WVOEMS) - (EMMS 1103 EMT-Basic 7 hours)
3.) Anatomy & Physiology Course (4 credit hours with a lab) - (BIOL 1170 Anatomy & Physiology 4 hours)
4.) Remedial Math, Reading and or English Courses

FOLK ARTS & CRAFTS APPRENTICESHIP

(One Year Certificate)

■ Noel W. Tenney, Cultural Specialist
& Program Coordinator
113 Education Building / 367-4403
ntenney@fairmontstate.edu

This program is designed for students who wish to promote the creation or sales of their own traditional arts/crafts, through a concentrated effort, study with a master craftsperson to learn specific skills. At the same time, students will acquire a basic understanding of small business management and account-

ing systems, marketing techniques, and cultural and regional historical backgrounds.

• Folk Arts & Crafts Apprenticeship
1 yr Certificate ..... 31 sem. hrs

REQUIRED COURSES:

ACCT	1100	Accounting Fundamentals	3
BUSN	2250	Small Business Management	3
ENGL	1104	Written English I	3
FOLK	1110	Craft Design & Marketing	3
FOLK	1150	Folk Arts	3
FOLK	2200	Intro to Folklore	4
FOLK	2295	Crafts Apprenticeship	9
INFO	1100	Computer Concepts & Applications	3

• Model Schedule ..... 31 sem. hrs.

FRESHMAN FIRST SEMESTER

ACCT	1100	Accounting Fundamentals	3
FOLK	1150	Folk Arts	3
FOLK	1110	Craft Design and Marketing	3
FOLK	2295	Crafts Apprenticeship	3
INFO	1100	Computer Concepts/Applications	3
			15

FRESHMAN SECOND SEMESTER

BUSN	2250	Small Business Management	3
ENGL	1104	Written English I	3
FOLK	2200	Introduction to Folklore	4
FOLK	2295	Crafts Apprenticeship	3
			13

SUMMER SEMESTER

FOLK	2295	Crafts Apprenticeship	3
			3

*FOLKLIFE STUDIES *(* Pending Approval)*

(Associate of Arts)

■ Judy P. Byers
320 Jaynes Hall / 367-4286
jbyers@fairmontstate.edu

■ Noel W. Tenney, Cultural Specialist
& Program Coordinator
113 Education Building / 367-4403
ntenney@fairmontstate.edu

The goal of this associate degree program is to provide a two track avenue for students interested in working in either the field of museum studies or traditional folk arts production and management. The program is designed so that students can approach the educational content with choice of direction and various levels of accomplishment from certification to associate degree. This approach enables students to pursue a bachelor's degree in associated fields after completing the associate degree.

Persons who desire employment in a museum setting as an interpreter, collections manager, education programming director, or exhibit developer will be one core of potential students in this program. By offering an emphasis track in crafts production and marketing management, persons who wish to promote the creation or sales of their own and others' products could gain both craft development skills and marketing savvy. Current area economic trends indicate that heritage tourism, regional travel, craft marketing, historic preservation, and the general promotion of the region's natural resources (whitewater rafting, skiing, hiking, etc.) are not only the fastest growing segments of the economic base, but will also set the directions for future regional change and stability. Regional state and national parks, forests, recreational areas, resorts, museums, historical sites, conference centers, and many others are all seeking qualified individuals for the various positions that this new activity is creating.

The West Virginia Folklife Center at Fairmont State has become a centering force within the region as both an educational and cultural resource. The Folklife Center works with state and regional level government and private entities (WV Departments of Education, Culture and History, and Travel and Tourism; WV Humanities Council; WV Association of Museums; Prickett's Fort Memorial Foundation; Vandalia Heritage Foundation; Tamarack; Mountain Made; and many other festivals, organizations, and museums) through shared programming, educational experiences, and the promotion of cultural ideas.

• Folklife Studies ..... 66 sem. hrs.
• General Education & Required Core ..... 34 sem. hrs.

BUSN	1141	Business Math	3
ENGL	1104	Written English I	3
ENGL	1108	Written English II	3
Fine Arts General Education Elective *(select one)*			3
		ART, MUSI, or THEA 1120	
FOLK	1150	Folks Arts	3
FOLK	2200	Intro to Folklore	4
HIST	1107	US History I	3
HIST	1108	US History II	3
INFO	1100	Computer Concepts & Applications	3
SPCH	1100	Intro to Speech Communication	3

Restricted Elective *(select one)* 3

APPD	1116	History of Contemporary Fashion	
- or -			
TECH	1100	History of Technology	

Additional Required Elective Courses 12
(Instructor approved, may include courses from Gen. Ed.)

Select an option to complete degree:

• Museum Studies Option ..... 20 sem. hrs.

FOLK	1100	Intro to Museum Studies	2
FOLK	2210	Museum Education Programming	3
FOLK	2220	Museum Collections Management	3
FOLK	2230	Museum Exhibit Design & Preparation	3
FOLK	2240	Museum Interpretation	3
FOLK	2290	Museum Internship	6

Folk Arts and Crafts Production/Marketing Option ..... 20 sem. hrs.

ACCT	1100	Accounting Fundamentals	3
BUSN	2250	Small Business Management	3
FOLK	1110	Introduction to Craft Design & Marketing	3
FOLK	2295	Crafts Apprenticeship	11

MUSEUM STUDIES OPTION

MODEL SCHEDULE ..... 66 sem. hrs.

FRESHMAN FIRST SEMESTER

BUSN	1141	Business Math	3
ENGL	1104	Written English I	3
FOLK	1100	Intro to Museum Studies	2
FOLK	1150	Folks Arts	3

HIST 1107 US History I 3
Restricted Elective *(select one)* 3
APPD 1116 History of Contemporary Fashion
TECH 1100 History of Technology
17

FRESHMAN SECOND SEMESTER
ENGL 1108 Written English II 3
FOLK 2200 Intro to Folklore 4
FOLK 2220 Museum Collections Management 3
INFO 1100 Computer Concepts & Applications 3
Fine Arts General Education Elective *(select one)* 3
ART, MUSI, or THEA 1120
16

SUMMER
FOLK 2290 Museum Internship 3

SOPHOMORE FIRST SEMESTER
HIST 1108 US History II 3
FOLK 2210 Museum Education Programming 3
FOLK 2230 Museum Exhibit Design & Preparation 3
Additional Required Electives *(select two, see advisor)* 6
15

SOPHOMORE SECOND SEMESTER
FOLK 2240 Museum Interpretation 3
FOLK 2290 Museum Internship 3
Additional Required Electives *(select two, see advisor)* 6
15

FOLK ARTS AND CRAFTS PRODUCTION/MARKETING OPTION

MODEL SCHEDULE ..... **66 sem. hrs.**

(1st year of AA degree completes requirements for Folk Arts & Crafts Apprenticeship Certificate, 31 hrs)

FRESHMAN FIRST SEMESTER
ACCT 1100 Accounting Fundamentals 3
FOLK 1150 Folk Arts 3
FOLK 1110 Craft Design and Marketing 3
FOLK 2295 Crafts Apprenticeship 3
INFO 1100 Computer Concepts/Applications 3
15

FRESHMAN SECOND SEMESTER
BUSN 2250 Small Business Management 3
ENGL 1104 Written English I 3
FOLK 2200 Introduction to Folklore 4
FOLK 2295 Crafts Apprenticeship 3
13

SUMMER SEMESTER
FOLK 2295 Crafts Apprenticeship 3

(Total 31 hrs completes Apprentice Certificate)

SOPHOMORE FIRST SEMESTER
BUSN 1141 Business Math 3
HIST 1107 US History I 3
Restricted Elective - Select one 3
APPD 1116 History of Contemporary Fashion .....
TECH 1100 History of Technology 3
Fine Arts Gen Ed Elective *(select one)* 3
ART, MUSI, or THEA 1120
Additional Required Electives - Select two *(see advisor)* 6
18

SOPHOMORE SECOND SEMESTER
FOLK 2295 Crafts Apprenticeship 2
ENGL 1108 Written English II 3
HIST 1108 US History II 3
SPCH 1100 Intro to Speech Communication 3
Additional Required Electives - Select two *(see advisor)* 6
17

FOOD SERVICE MANAGEMENT

(Associate of Applied Science)

CULINARY ARTS

■ **Brian Floyd, Certified Executive Chef, Instructor and Program Coordinator**
140 Education Building / (304) 367-4409
bfloyd@fairmontstate.edu

The nationally recognized Culinary Arts specialization (Accredited through the American Culinary Federation) provides an outstanding foundation for students interested in pursuing a career in the food service industry. Students in the Culinary Arts specialization will be eligible to become Certified Culinarians upon graduation. Basic courses in the degree give knowledge in sanitation, equipment, food purchasing, food merchandising, quantity foods, and personnel management. Theoretical and practical cooking is explored. Students can expect to qualify for entry to mid-level food service positions upon graduation.

Students may choose to articulate into the Bachelor of Science Hospitality Management Degree. See Business Administration catalog description for more information.

Beginning in fall 2006, admission to the Culinary Arts program will be competitive. Applications should be received by April 1, 2006 for admission into the fall 2006 program. Applicants to the program must have a minimum GPA of 2.0, a score of 18 or higher on the English section of the ACT (or SAT equivalent) or successful completion of ENGL 0097 or ENGL 1104, and a score of 18 or better on the Math section of the ACT (or SAT equivalent) or successful completion of MATH 0095. Experience in the food service industry or certification from a ProStart program is highly desirable.

To continue in the Culinary Arts program, the student must meet the following standards:

a.) Pass all courses required for the A.A.S. degree.
b.) Maintain a minimum overall grade point average (GPA) of 2.0 and no less than a "C" grade in all Culinary Arts courses.

Readmission to the program will be determined on an individual basis. This will be decided by the Admissions Committee on the basis of qualifications of the student and upon a space available. Students in good standing who withdraw from the program for unpredictable or uncontrollable reasons will be given priority consideration if they reapply.

REQUIRED COURSES

• **Culinary Arts Specialization** ..... **64 sem. hrs.**

ENGL 1104 Written English I 3
ENGL 1108 Written English II 3
FOSM 1110 Nutrition 3
FOSM 1119 Intro to Food Service Industry 3
FOSM 1121 Food Service Fac. & Equipment 3
FOSM 1122 Sanitation & Safety 2
FOSM 1130 Basic Baking 3
FOSM 1140 Food Service Cost Analy & Man 3
FOSM 2201 Principles of Food Sel & Prep 3
FOSM 2202 Principles of Food Sel & Prep lab 1

FOSM	2203	Principles of Quantity Foods	3
FOSM	2204	Principles of Quantity Foods Lab	1
FOSM	2209	Garde Manger	3
FOSM	2224	Purchasing & Receiving	3
FOSM	2227	Food & Bev Merchandising	3
FOSM	2228	Food Service Org/Mgmt	3
FOSM	2229	Food Service Practicum	9
INFO	1110	Comp Concepts & Applications	3
MKTG	2204	Principles of Marketing	3
MGMT	2209	Principles of Management	3
General Education Elective			3

MODEL SCHEDULE ..... 64 sem. hrs.

FRESHMAN FIRST SEMESTER

FOSM	1119	Intro Food Service Industry	3
FOSM	1121	Food Service Fac & Equip	3
FOSM	1122	Sanitation and Safety	2
FOSM	2201	Principles of Food Selection and Prep	3
FOSM	2203	Principles of Food Laboratory	1
ENGL	1104	Written English I *(PR: ACT 18 or ENG 097)*	3
			15

FRESHMAN SECOND SEMESTER

FOSM	1140	Food Service Cost Analy&Man	3
FOSM	2202	Principles of Quantity Foods	3
FOSM	2204	Prin of Quan Food Laboratory	1
FOSM	1130	Basic Baking	3
INFO	1100	Comp Concepts & Applications	3
ENGL	1108	Written English II *(PR: "C" in ENGL 1104)*	3
			16

SUMMER

FOSM	2229	Food Service Practicum	6

SOPHOMORE FIRST SEMESTER

FOSM	1110	Nutrition	3
FOSM	2209	Garde Manger	3
FOSM	2224	Purchasing & Receiving	3
FOSM	2228	Food Service Org/Mgmt	3
MGMT	2209	Principles of Management	3
			15

SOPHOMORE SECOND SEMESTER

FOSM	2227	Food & Bev Merchandising	3
FOSM	2229	Food Service Practicum	3
MKTG	2204	Principles of Marketing	3
General Education Elective-Restricted Elective *(see advisor)*			3
May select additional business elective *(see advisor)*			
			12

DIETARY MANAGER

■ **Pamela Hamilton, RD, LD**
Associate Professor and Program Coordinator
139 Education Building / (304) 367-4297
phamilton@fairmontstate.edu

The Food Service Management program offers an option in Dietary Management with graduates responsible for directing and controlling the following: menu planning, food purchasing, food production and service, financial management, employee recruitment, training and supervision and (in some settings) nutritional assessment and clinical care. Commonly identified benefits of this career choice include: It's challenging; it involves caring for people and working with people; it's fulfilling, it's a good long-term career (Source: DMA member survey, 1999). Working conditions may include varied hours, long days and the requirement to juggle multiple demands. Dietary Managers work with both people and paperwork. They tend to be energetic, results-oriented problem-solvers who thrive on challenge and enjoy teamwork.

Dietary Managers may find themselves working in hospitals, long-term care, schools, correctional facilities and many other settings. Employment of food service managers is expected to increase about as fast as the average for all occupations through 2010. Employment in foodservice is not very sensitive to economic conditions, so ongoing employment is a good bet (Source: U.S. Dept. of Labor). The career outlook for Dietary Managers is good. As institutions deal with more government regulations, the need for qualified Dietary Managers increases (Source: East Texas Area Health Education Center).

REQUIRED COURSES

• **Dietary Manger ..... 64 sem. hrs.**

BIOL	1170	Anatomy & Physiology	4
INFO	1100	Comp Concepts & Applications	3
ENGL	1104	Written English I	3
ENGL	1108	Written English II	3
FOSM	1110	Nutrition	3
FOSM	1121	Food Service Fac & Equip*	3
FOSM	1122	Sanitation and Safety*	2
FOSM	1140	Food Service Cost Analy&Man*	3
FOSM	2201	Principles of Food Selection and Prep*	3
FOSM	2202	Principles of Quantity Foods*	3
FOSM	2203	Principles of Food Selection & Prep Laboratory*	1
FOSM	2204	Principles of Quantity Food Laboratory*	1
FOSM	2220	Diet Therapy	3
FOSM	2224	Purchasing & Receiving*	3
FOSM	2228	Food Service Org/Mgmt*	3
FOSM	2229	Food Service Practicum *(Health Care Facility)*	12
FOSM	2250	Appl in Community & Med Nutrition*	3
FOSM	2260	Seminar in Dietary Management*	2
HLCA	1100	Medical Terminology	3
SOCY	1110	Intro to Sociology	3

MODEL SCHEDULE ..... 64 sem. hrs.

FRESHMAN FIRST SEMESTER

FOSM	1110	Nutrition	3
FOSM	1121	Food Service Fac & Equip	3
FOSM	1122	Sanitation and Safety	2
FOSM	2201	Principles of Food Selection and Prep	3
FOSM	2203	Principles of Food Laboratory	1
ENGL	1104	Written English I *(PR: ACT 18 or ENG 097)*	3
SOCY	1110	Intro Sociology	3
			18

FRESHMAN SECOND SEMESTER

FOSM	1140	Food Service Cost Analy & Man	3
FOSM	2202	Principles of Quantity Foods	3
FOSM	2204	Principles of Quantity Food Laboratory	1
FOSM	2220	Diet Therapy	3
ENGL	1108	Written English II *(PR: "C" in ENG 1104)*	3
HLCA	1100	Medical Terminology	3
			16

SOPHOMORE FIRST SEMESTER

FOSM	2224	Purchasing & Receiving	3
FOSM	2228	Food Service Org/Mgmt	3
FOSM	2250	Appl in Community & Med Nutrition	3
BIOL	1170	Anatomy & Physiology	4
INFO	1100	Comp Concepts & Applications	3
			16

SOPHOMORE SECOND SEMESTER

FOSM	2229	Food Service Practicum *(Health Care Facility)*	12
FOSM	2260	Seminar in Dietary Management	2
			14

PASTRY & BAKING ARTS

■ Brian Floyd, Certified Executive Chef,
Instructor and Program Coordinator
140 Education Building / (304) 367-4409
bfloyd@fairmontstate.edu

According to the National Restaurant Association, the hospitality industry employment is anticipated to grow by 11% over the next 10 years. As foodservice operations grow so to will the demand for qualified employees to fill the additional positions. The pastry and baking arts is a specialized field that currently has a shortage of labor. The Pastry & Baking Arts specialization will prepare students to help fill the industry demand. The specialization fits into the current Foodservice Management program structure. Additional classes will allow students to seek specialized skills necessary for employment as a pastry cook upon graduation. Moreover, the student will still be grounded in to the fundamentals of foodservice management. Pastry & Baking students will gain exposure to proper sanitation and safety practices, proper nutritional practices, proper equipment procedures, and proper supervisory management practices in the same classes that the Culinary students will attend.

Beginning in fall 2006, admission to the Pastry & Baking Arts program will be competitive. Applications should be received by April 1, 2006 for admission into the fall 2006 program. Applicants to the program must have a minimum GPA of 2.0, a score of 18 or higher on the English section of the ACT (or SAT equivalent) or successful completion of ENGL 0097 or ENGL 1104, and a score of 18 or better on the Math section of the ACT (or SAT equivalent) or successful completion of MATH 0095. Experience in the food service industry or certification from a ProStart program is highly desirable.

To continue in the Pastry & Baking Arts program, the student must meet the following standards:

a.) Pass all courses required for the A.A.S. degree.
b.) Maintain a minimum overall grade point average (GPA) of 2.0 and no less than a "C" grade in all Culinary Arts courses.

Readmission to the program will be determined on an individual basis. This will be decided by the Admissions Committee on the basis of qualifications of the student and upon a space available. Students in good standing who withdraw from the program for unpredictable or uncontrollable reasons will be given priority consideration if the reapply.

REQUIRED COURSES

• Pastry & Baking Arts Specialization ..... 64 sem. hrs.

ENGL	1104	Written English I	3
ENGL	1108	Written English II	3
FOSM	1110	Nutrition	3
FOSM	1119	Intro to Food Service Industry	3
FOSM	1121	Food Service Fac. & Equipment	3
FOSM	1122	Sanitation & Safety	2
FOSM	1130	Basic Baking	3
FOSM	1140	Food Service Cost Analy & Man	3
FOSM	2201	Principles of Food Sel & Prep	3
FOSM	2202	Principles of Food Sel & Prep lab	1
FOSM	2203	Principles of Quantity Foods	3
FOSM	2204	Principles of Quantity Foods Lab	1
FOSM	2224	Purchasing & Receiving	3
FOSM	2228	Food Service Org/Mgmt	3
FOSM	2229	Food Service Practicum	9
FOSM	2230	Advanced Baking	3
FOSM	2232	Pastry & Confections	3
INFO	1110	Comp Concepts & Applications	3
MKTG	2204	Principles of Marketing	3
MGMT	2209	Principles of Management	3
General Education Elective			3

MODEL SCHEDULE ..... 64 sem. hrs.

FRESHMAN FIRST SEMESTER

FOSM	1119	Intro Food Service Industry	3
FOSM	1121	Food Service Fac & Equip	3
FOSM	1122	Sanitation and Safety	2
FOSM	2201	Principles of Food Selection and Prep	3
FOSM	2203	Principles of Food Laboratory	1
ENGL	1104	Written English I *(PR: ACT 18 or ENG 097)*	3
			15

FRESHMAN SECOND SEMESTER

FOSM	1140	Food Service Cost Analy&Man	3
FOSM	2202	Principles of Quantity Foods	3
FOSM	2204	Prin of Quan Food Laboratory	1
FOSM	1130	Basic Baking	3
INFO	1100	Comp Concepts & Applications	3
ENGL	1108	Written English II *(PR: "C" in ENGL 1104)*	3
			16

SUMMER

FOSM	2229	Food Service Practicum	6

SOPHOMORE FIRST SEMESTER

FOSM	1110	Nutrition	3
FOSM	2230	Advanced Baking	3
FOSM	2224	Purchasing & Receiving	3
FOSM	2228	Food Service Org/Mgmt	3
MGMT	2209	Principles of Management	3
			15

SOPHOMORE SECOND SEMESTER

FOSM	2232	Pastry & Confections	3
FOSM	2229	Food Service Practicum	3
MKTG	2204	Principles of Marketing	3
General Education Elective-Restricted Elective *(see advisor)*			3
May select additional business elective *(see advisor)*			
			12

RESORT & HOTEL MANAGEMENT

■ Pamela Hamilton, RD, LD
Associate Professor and Program Coordinator
139 Education Building / (304) 367-4297
phamilton@fairmontstate.edu

The Food Service Management program has stepped forward to address the growing demands of the hotel, resort, and tourism segments of the hospitality industry. The Resort & Hotel Management specialization will focus on preparing students for a career in the support services of the hospitality and lodging industries. Resort & Hotel Management fits within the current Food Service Management structure. Majors in this specialized area of study will receive training for positions in entry level to middle management. The emphasis will be in front house operations. Students electing to pursue this degree will benefit from

several of our current classes, and in addition, will take new courses specifically designed to offer students an opportunity to study guest services, housekeeping, catering and banquets, and front desk operations.

REQUIRED COURSES

• **Resort & Hotel Management Specialization.. 65 sem. hrs.**

ACCT	2201	Principles of Accounting	3
BUSN	1102	Intro to Business	3
ENGL	1104	Written English I	3
ENGL	1108	Written English II	3
FOSM	1110	Nutrition	3
FOSM	1119	Intro to Food Service Industry	3
FOSM	1121	Food Service Fac. & Equipment	3
FOSM	1122	Sanitation & Safety	2
FOSM	1140	Food Service Cost Analy & Man	3
FOSM	2200	Introduction to Foods	3
FOSM	2202	Principles of Quantity Foods	3
FOSM	2224	Purchasing & Receiving	3
FOSM	2225	Resort & Hotel Management	3
FOSM	2228	Food Service Org/Mgmt	3
FOSM	2227	Food & Beverage Merchandising	3
FOSM	2229	Food Service Practicum	9
INFO	1110	Comp Concepts & Applications	3
MKTG	2204	Principles of Marketing	3
MGMT	2209	Principles of Mgmt	3
SOCY	1110	Introduction to Sociology	3

MODEL SCHEDULE ..... 65 sem. hrs.

FRESHMAN FIRST SEMESTER

FOSM	1119	Intro to Food Service Industry	3
FOSM	1121	Food Service Fac. & Equipment	3
FOSM	1122	Sanitation & Safety	2
FOSM	2200	Introduction to Foods	3
FOSM	1110	Nutrition	3
ENGL	1104	Written English I *(PR: ACT 18 or ENG 097)*	3
			17

FRESHMAN SECOND SEMESTER

FOSM	1140	Food Service Cost Analy & Man	3
FOSM	2202	Principles of Quantity Foods	3
BUSN	1102	Intro to Business	3
ENGL	1108	Written English II *(PR: "C" in ENG 1104)*	3
INFO	1110	Comp Concepts & Applications	3
			15

SUMMER

FOSM	2229	Food Service Practicum	6

SOPHOMORE FIRST SEMESTER

FOSM	2224	Purchasing & Receiving	3
FOSM	2225	Resort & Hotel Management	3
FOSM	2228	Food Service Org/Mgmt	3
SOCY	1110	Introduction to Sociology	3
MGMT	2209	Principles of Mgmt	3
			15

SOPHOMORE SECOND SEMESTER

ACCT	2201	Principles of Accounting	3
FOSM	2227	Food & Beverage Merchandising	3
FOSM	2229	Food Service Practicum	3
MKTG	2204	Principles of Marketing	3
			12

PROMGMT® CERTIFICATE

(Skill Set)

■ **Brian Floyd, Certified Executive Chef, Instructor and Program Coordinator**
140 Education Building / (304) 367-4409
bfloyd@fairmontstate.edu

This series of courses are endorsed by the National Restaurant Association, providing a college level curriculum driven by collaboration with business and setting a much needed industry standard of knowledge and skills. Pierpont Community & Technical College Food Service Management program has been approved as a partner with the National Restaurant Association to become a ProMgmt instructional site. The potential audience for this program will be both traditional and non-traditional students. The primary focus for recruitment of students for this program will come from ProStart programs. ProStart is taught at the high school and vocational level, and is the feeder program leading into ProMgmt certificate program. ProMgmt will also be taken by general culinary students and by foodservice and restaurant employees seeking a certificate program for career advancement. Students will be able to complete the ProMgmt program within two semesters. The philosophy behind the certificate is to give the students a step approach to their education, from secondary school to college. Students have an opportunity to complete 20 hours towards an associate degree and the certificate or choose to do the certificate as a stand-alone certification. Then if they decide to do so, they may apply that credit toward a 2-year associate degree in Food Service Management. The courses chosen for this certificate were carefully chosen to meet all National Restaurant certification guidelines.

REQUIRED COURSES:

• **ProMgmt® ..... 23 sem. hrs.**

FOSM	1122	Sanitation and Safety	2
FOSM	1119	Intro Food Service Industry	3
FOSM	1121	Food Service Facilities & Equipment	3
FOSM	1130	Basic Baking	3
FOSM	2201	Principles of Food Selection & Preparation	3
FOSM	2224	Purchasing & Receiving	3
FOSM	2227	Food & Beverage Merchandising	3
MKTG	2204	Principles of Marketing	3

SERVE SAFE®

(Skill Set)

Brian Floyd, Certified Executive Chef, Instructor and Program Coordinator
140 Education Building / (304) 367-4409
bfloyd@fairmontstate.edu

This Skill Set is a single course that will provide a certificate awarded by the C&TC that is recognized as certification of training in sanitation policy and procedures for food service workers as required by their employer.

REQUIRED COURSE:

FOSM	1122	Sanitation and Safety	2

GRAPHICS TECHNOLOGY

(Associate of Science)

■ Vijay Raol, Coordinator A.S. Degree Program
105 Wallman Hall / 367-4104
jraol@fairmontstate.edu

- Graphics Technology ..... 64 sem. hrs.
- Common Core Courses ..... 43 sem. hrs.

ENGL	1104	Written English I	3
ENGL	1108	Written English II	3
SPCH	1100	Intro to Speech Communications	3
INFO	1100	Computer Concepts and Applications	3
Science/Social Science Elective			3
DRFT	1100	Engineering Graphics	3
GRAP	1100	Graphic Communications Processes	3
GRAP	1125	Multimedia Concepts	3
GRAP	1150	Computer Applications to Graphics	3
GRAP	2210	Graphics: Methods & Materials	3
GRAP	2225	Basic Photography	3
GRAP	2230	Graphic Design	3
GRAP	2250	Graphics Practicum	4
OFAD	2250	Desktop Publishing	3

COMMERCIAL DESIGN OPTION ..... 21 sem. hrs.

ART	1140	Art Structure & App Design	3
ART	1141	Art Structure & App Design	3
ART	1142	Drawing	3
ART	2241	Drawing from Life	3
MATH	1107	Fundamental Concepts	3
ART	Elective		3
GRAP	Elective		3

ELECTRONIC PUBLISHING OPTION ..... 21 sem. hrs.

DRFT	2200	Fundamentals of CAD	3
GRAP	2245	Digital Photography	3
GRAP	2265	Estimating & Cost Analysis	3
GRAP	2285	Electronic Art	3
GRAP	2290	Computer Imaging	3
GRAP	Elective		3
TECH	1101	Intro to Technology	3

INTERNET PUBLISHING OPTION ..... 21 sem. hrs

DRFT	2200	Fundamentals of CAD	3
GRAP	2245	Digital Photography	3
GRAP	2255	Internet Animation	3
GRAP	2280	Internet Publishing	3
GRAP	2285	Electronic Art	3
GRAP	2290	Computer Imaging	3
GRAP	Elective		3

- Minor, B.A. and B.S. Degree ..... 33 sem. hrs.

ART	1140	Art Structure and Applied Design	3
ART	1141	Art Structure and Applied Design	3
ART	1142	Drawing	3
ART	2241	Drawing from Life	3
ART	3363	Painting in Watercolor	3
GRAP	1100	Graphic Communication Processes	3
GRAP	1150	Computer Applications to Graphics	3
GRAP	2200	Introduction to Desktop Publishing	3
GRAP	2210	Graphics - Methods and Materials	3
GRAP	2225	Basic Photography	3
GRAP	2230	Layout and Design I	3

COMMERCIAL DESIGN OPTION

MODEL SCHEDULE ..... 64 sem. hrs.

FRESHMAN FIRST SEMESTER

GRAP	1100	Graphic Communication Processes	3
ART	1140	Art Structure I	3
ART	1142	Drawing	3
GRAP	1150	Computer Applications to Graphics	3
SPCH	1100	Intro. ot Speech Communication	3
ENGL	1104	Written English I	3
			18

FRESHMAN SECOND SEMESTER

ART	1141	Art Structure	3
ART	2241	Drawing from Life	3
OFAD	2250	Desktop Publishing	3
GRAP	2210	Graphics-Methods & Mat.	3
ENGL	1108	Written English II	3
			15

SOPHOMORE FIRST SEMESTER

GRAP	2225	Basic Photography	3
GRAP	2230	Graphics Design	3
GRAP	1125	Multimedia Concepts	3
ART	Elective		3
DRFT	1100	Engineering Graphics	3
			15

SOPHOMORE SECOND SEMESTER

GRAP	Elective		3
GRAP	2250	Graphics Practicum (Instructor Approval)	4
INFO	1100	Computer Concepts	3
MATH	1107	Fundamental Concepts	3
Sci./Soc. Sci. Elective			3
			16

ELECTRONIC PUBLISHING OPTION

MODEL SCHEDULE ..... 64 sem. hrs.

FRESHMAN FIRST SEMESTER

GRAP	1100	Graphic Communication Processes	3
GRAP	1150	Computer App. to Graphics	3
TECH	1101	Intro. to Technology	3
SPCH	1100	Intro. to Speech Communication	3
ENGL	1104	Written English I	3
GRAP	1125	Multimedia Concepts	3
			18

FRESHMAN SECOND SEMESTER

GRAP	2210	Graphics-Methods & Material	3
DRFT	1100	Engineering Graphics	3
OFAD	2250	Desktop Publishing	3
GRAP	2225	Basic Photography	3
ENGL	1108	Written English II	3
			15

SOPHOMORE FIRST SEMESTER

GRAP	2245	Digital Photography	3
GRAP	2230	Graphic Design	3
GRAP	2265	Estimating and Cost Analysis	3
INFO	1100	Comp. Concepts & Appls.	3
GRAP	Elective		3
			15

SOPHOMORE SECOND SEMESTER

GRAP	2285	Electronic Art	3
GRAP	2250	Graphics Practicum	4
GRAP	2290	Computer Imaging	3
DRFT	2200	Fundamentals of CAD	3
Sci./Soc. Sci. Elective			3
			16

INTERNET PUBLISHING OPTION

MODEL SCHEDULE ..... 64 sem. hrs.

FRESHMAN FIRST SEMESTER

GRAP	1100	Graphic Communication Processes	3
INFO	1100	Computer Concepts & Appls	3
GRAP	1150	Computer App. to Graphics	3
SPCH	1100	Intro. to Speech Communication	3
ENGL	1104	Written English I	3
GRAP	1125	Multimedia Concepts	3
			18

FRESHMAN SECOND SEMESTER

DRFT	1100	Engineering Graphics	3
OFAD	2250	Desktop Publishing	3
GRAP	2210	Graphics-Methods & Mat.	3
GRAP	2225	Basic Photography	3
ENGL	108	Written English II	3
			15

SOPHOMORE FIRST SEMESTER

GRAP	2245	Digital Photography	3
GRAP	2230	Graphic Design	3
GRAP	2280	Internet Publishing	3
GRAP	2285	Electronic Art	3
GRAP	2255	Internet Animation	3
			15

SOPHOMORE SECOND SEMESTER

GRAP	2250	Graphics Practicum	4
GRAP	2290	Computer Imaging	3
GRAP	Elective		3
GRAP	Elective		3
Sci./Soc. Sci. Elective			3
			16

HEALTH INFORMATION TECHNOLOGY

(Associate of Applied Science)

■Vickie Findley, MPA, RHIA, Program Coordinator
202 Education Building / 367-4716
vfindley@fairmontstate.edu
HIT@fairmontstate.edu

The Health Information Technology Program is designed to prepare students to work as a health information technician in various health care facilities.

The health information technician is trained in all functions of health information systems including record assembly, analysis, abstracting, storage and retrieval, statistical reporting and analysis, transcription, legal aspects of health information with release of information, disease and operation coding and indexing including computer use and DRG assignments, requirements for licensure and accreditation, quality assessment, risk management and supervision.

In addition to the mastery of technical skills in word processing equipment, abstracting data to support quality assessment activities and support to various committees the technician will be prepared to accept the responsibility of supervising health information operations in a variety of health facilities.

The Health Information Technology Program is accredited by the Commission on Accreditation for Health Informatics and Information Management (CAHIIM), a component of the American Health Information Management Association. Graduates of the program are eligible to apply to write the accreditation examination of the American Health Information Management Association for the designation RHIT-Registered Health Information Technician.

Applicants are advised to make application before April 1. Admission to the program is based on high school transcripts, ACT or SAT or placement testing (COMPASS English and Math), and college transcripts when applicable.

To remain in the HIT program, a student must receive a grade of "C" or above in every HIT course and in prerequisite course. Support courses identified as prerequisites of subsequent HIT courses require a "C" or above to progress. Failure to meet these requirements will result in dismissal from the program. If a student withdraws from a HIT course during the program, they may be subject to dismissal from the program. Readmission is on the basis of space availability, faculty review, and credentials review. An overall "C" average must be maintained in order to graduate from the HIT program. Additionally, in order to graduate from the college, the student must achieve a "C" or above in English 104 and English 108.

Places of Employment:
- Hospitals
- Physicians Offices
- Clinics
- Health Agencies
- Supply Vendors
- Nursing Homes

Types of Employment:
- Health Information Clerk
- Transcriptionist
- Supervisor
- Medical Audit/DRG Analyst
- Coder
- Specialty Registries

MODEL SCHEDULE ..... 73 sem. hrs.

FRESHMAN FIRST SEMESTER

HLIN	1100	Fundamentals of Health Information	4
HLIN	1100	Fundamentals of Health Information Lab	1
HLCA	1100	Medical Terminology	3
ENGL	1104	Written English I	3
INFO	1100	Computer Concepts and Applications	3
PSYC	1101	Introduction to Psychology	3
HLIN	1101	Health Information Community Service	1
			18

FRESHMAN SECOND SEMESTER

BIOL	1170	Anatomy and Physiology	4
ENGL	1108	Written English II	3
HLIN	1105	Computers in Health Care	3
HLIN	1109	Health Care Statistics	3
HLIN	1110	Legal Aspects of Health Information	3
General Studies Elective			3
			19

FIRST SUMMER TERM

HLIN	1115	Alternate Care Settings	2

SOPHOMORE FIRST SEMESTER

HLCA	1102	Pathophysiology	3
HLIN	2200	Interpretation of Diagnostic Data	3
HLIN	2203	Quality Assessment/Utilization Review	3
HLIN	2205	Classification System I – ICD	5
HLIN	2206	Clinical Practicum I	4
			18

SOPHOMORE SECOND SEMESTER

HLIN	2202	Reimbursement Systems	2

HLIN	2207	Health Information Supervision	3
HLIN	2208	Clinical Practicum II	4
HLIN	2209	Classification System II - CPT	5
HLIN	2210	Health Information Technology Capstone	2
			16

HOMELAND SECURITY

(Associate of Applied Sciences)

■ Les Boggess, Associate Professor
315 Hardway Hall / 367-4678
lboggess@fairmontstate.edu

This program provides education and training for individuals desiring to be a part of the new and rapidly emerging workforce in homeland security. Students accepted to this program must provide proof of US citizenship, and pass a background check.

Individuals who successfully complete this program will find many employment opportunities such as: defense corporations, hospitals, the aviation industry, regional security offices, shopping mall security, state and federal emergency management. Students must complete the Core courses and select either Criminal Justice, EMS, Aviation or Safety tract to complete the degree requirements.

- Homeland Security ..... 68 -71 sem. hrs.
- Core Courses ..... 41 sem. hrs.

ENGL	1104	Written English I	3
ENGL	1108	Written English II	3
- or -			
ENGL	1109	Technical Report Writing	3
INFO	1100	Computer Concepts and Applications	3
POLI	1103	American Government	3
SOCY	1110	Intro to Sociology	3
- or -			
PSYC	1101	Intro to Psychology	3
Math or Science			3
SPCH	1100	Introduction to Speech Communications	3
CRJU	2257	Risk Management *	3
AVMA	2206	Aviation Security *	3
EMMS	1112	EMS ERT: Basic Concepts	3
SFTY	2205	Disaster Preparedness *	3
INTR	2250	Interdisciplinary Practicum *	3
PHED	1100	Fitness and Wellness	2
Ethics Elective (Any 3 hour Ethics Class)			3

AVIATION TRACK ..... 27 sem. hrs.

AVMA	1100	Intro to Flight Theory	3
AVMA	2211	Airport Management	3
AVMA	2205	General Aviation Ops	3
AVMA	1109	Air Rescue Fire Fighting	3
AVMA	2202	Aviation Law	3
AVMA	2213	Airport Plan & Develop	3
AVMA	2203	Airline Operations	3
AVMA	2225	Airline Transport Security	3
AVMA	2207	Aviation Safety	3

CRIMINAL JUSTICE TRACK ..... 30 sem. hrs.

SOCY	2200	Social Problems	3
PSYC	2250	Community Psychology	3
SOCY	1110	Intro to Sociology	3
- or-			
PSYC	1101	Intro Psychology	3
		(whichever not taken as core)	
CRJU	1100	Introduction to Criminal Justice	3
CRJU	1101	Police Operations	3
CRJU	2202	Principles of Criminal Law	3
CRJU	2209	Firearms	3
CRJU	2215	Introduction to Private Security	3
CRJU	2260	Terrorism, Counter Ter., and Ter. Response*	3
CRJU	2236	Criminal Investigation	3

EMS TRACK ..... 24 sem. hrs.

EMMS	1100	Introduction to EMS	2
EMMS	1103	EMT – Basic	7
EMMS	1104	EMS Operations	2
EMMS	1111	Homeland Security Practicum I*	1
EMMS	2221	Homeland Security Practicum II*	1
EMMS	2222	Emergency Response to Terrorism: Tactical Considerations*	3
EMMS	2223	Homeland Security Practicum III*	1
EMMS	2224	Basic Life Support & Hazardous Materials	3
EMMS	2225	Homeland Security Practicum IV*	1
SFTY	2210	HazWOPER**	3

SAFETY TRACK ..... 25 sem. hrs

SFTY	1100	Safety and Environmental Components	3
SFTY	2210	HazWOPER **	3
SFTY	2260	Fire Prevention	3
SFTY	2290	Intro Industrial Hygiene	3
EMMS	2224	BLS and Hazardous Materials Response *	2
MATH	1102	Applied Technical Math	3
CHEM	1101	General Chemistry	4
CHEM	1102	General Chemistry	4

** New Courses spccifically developed for this program.*
*** New Courses specifically developed for this program and from which ccrtification is granted upon completion.*

AVIATION TRACK

MODEL SCHEDULE ..... 68 sem. hrs.

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
INFO	1100	Comp Concepts	3
PSYC	1101	Intro to Psychology	3
AVMA	1100	Aircraft Flight Theory	3
AVMA	2206	Aviation Security	3
PHED	1100	Fitness & Well	2
			17

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
- or -			
ENGL	1109	Tech Report Writing	3
AVMA	2211	Airport Management	3
POLI	1103	American Government	3
AVMA	2205	General Aviation Ops	3
AVMA	1109	Air Rescue Fire Fight	3
			15

SOPHOMORE FIRST SEMESTER

SPCH	1100	Intro to Speech Com	3
MATH	1107	Fund Concepts of Math	3
AVMA	2202	Aviation Law	3
CRJU	2256	Risk Management	3
AVMA	2213	Airport Planning & Dev.	3
AVMA	2203	Airline Operations	3
			18

SOPHOMORE SECOND SEMESTER

SFTY	2205	Disaster Preparedness	3
AVMA	2225	Transport Security	3
AVMA	2207	Aviation Safety	3
EMMS	1112	EMS ERT: Basic Concepts	3
INTR	2250	Interdisciplinary Practicum	3
Ethics elective			3
			18

CRIMINAL JUSTICE TRACK

MODEL SCHEDULE ..... 71 sem. hrs.

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
POLI	1103	American Govt.	3
PSYC	1101	Intro to Psychology	3
SOCY	1110	Intro to Sociology	3
CRJU	1100	Intro to Crim Justice	3
PHED	1100	Fitness Wellness	2
			17

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
- or -			
ENGL	1109	Tech Report Writing	3
PSYC	2250	Community Psych	3
SOCY	2200	Social Problems	3
CRJU	1101	Police Operations	3
CRJU	2215	Intro to Pri. Security	3
INTR	2250	Interdisciplinary Prac	3
			18

SOPHOMORE FIRST SEMESTER

SPCH	1100	Intro to Speech Comm	3
Math or Science (See Catalog)			3
CRJU	2202	Prin of Criminal Law	3
AVMA	2206	Aviation Security	3
CRJU	2209	Firearms	3
CRJU	2236	Criminal Investigation	3
			18

SOPHOMORE SECOND SEMESTER

Ethics	Elective		3
SFTY	2205	Disaster Preparedness	3
INFO	1100	Comp Concepts	3
CRJU	2260	Terrorism	3
CRJU	2257	Risk Management	3
EMMS	1112	EMS Resp. to Terr.	3
			18

EMERGENCY MEDICAL SERVICES TRACK

MODEL SCHEDULE ..... 66 sem. hrs.

FRESHMAN FIRST SEMESTER

EMMS	1100	Intro to EMS	2
EMMS	1103	EMT-Basic	7
EMMS	1104	EMS Operations	2
ENGL	1104	Written English I	3
POLI	1103	American Govt	3
EMMS	1111	HLS Practicum-I	1
			18

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
- or -			
ENGL	1109	Tech Report Writing	3
SFTY	2205	Disaster Preparedness	3
AVMA	2206	Aviation Security	3
PHED	1100	Fitness & Wellness	3
EMMS	1112	ERT: Basic Concepts	3
EMMS	2221	HLS Practicum-II	1
			16

SOPHOMORE FIRST SEMESTER

EMMS	2222	ERT: EMS Tact Cons	3
CRJU	2256	Risk Management	3
MATH	1107	Fund Concepts of Math	3
PSYC	1101	Intro to Psychology	3
SPCH	1100	Intro to Speech Comm	3
EMMS	2223	HLS Practicum-III	1
			16

SOPHOMORE SECOND SEMESTER

Ethics	Any 3 hour Ethics Course		3
SFTY	2210	HazWOPER	3
INTR	1100	Comp Concepts	3
EMMS	2224	BLS: Haz-mat Resp.	3
SOCY	1110	Intro to Sociology	3
EMMS	2225	HLS Practicum-IV	1
			16

SAFETY TRACK

MODEL SCHEDULE ..... 68 sem. hrs.

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
POLI	1103	American Govt	3
PSYC	1101	Intro to Psychology	3
MATH	1101	Applied Tech Math	3
SFTY	1100	Safety and Environmental Components	3
SPCH	1100	Intro to Speech Comm	3
			18

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
- or -			
ENGL	1109	Tech Report Writing	3
MATH	1102	Applied Tech Math	3
SFTY	2205	Disaster Preparedness	3
AVMA	2206	Aviation Security	3
INTR	2250	Multidisciplinary Intern.	3
PHED	1100	Fitness & Wellness	3
			18

SOPHOMORE FIRST SEMESTER

CRJU	2257	Risk Management	3
CHEM	1101	Gen Chemistry	4
EMMS	1112	EMS ERT: Basic Con	3
SFTY	2290	Intro Industrial Hyg.	3
Ethics	*(Any 3 hour Ethics class)*		3
			16

SOPHOMORE FIRST SEMESTER

SFTY	2210	HazWOPER	3
CHEM	1102	General Chemistry	4
INFO	1100	Comp Concepts	3
SFTY	2260	Fire Prevention	3
EMMS	2224	BLS & HazMat Resp.	3
			16

INFORMATION SYSTEMS

(Associate of Applied Science)

■ Holly Yuan
128 Colebank Hall / (304) 367-4184
dyuan@fairmontstate.edu

The Associate Degree in Information Systems Technology provides students with a solid basis in computer and network design, implementation and troubleshooting. The degree has fundamental classes that teach problem-solving and skill sets that are essential to all types of businesses today. Throughout the course of study, students select Information Systems electives that are tailored toward their career objectives. The goal of the program is to provide students the knowledge and skills that they need to be productive members of the ever-growing and changing Information Technology workforce.

- **Information Systems ..... 66 sem. hrs.**
- **Required courses ..... 54 sem. hrs.**

ACCT	2201	Principles of Accounting I	3
BUSN	1102	Introduction to Business	3
BUSN	2210	Human Relations in Business	3
BUSN	2251	Corporate Communications	3
ENGL	1104	Written English I	3
ENGL	1109	Technical Report Writing	3
FINC	2230	Financial Literacy	3
INFO	1100	Computer Concepts and Applications	3
INFO	2200	Fundamentals of Information Systems	3
INFO	2205	Information Technology-Hardware & Software	3
INFO	2206	Advanced Hardware & Operating Systems	3
INFO	2210	Applied Business Programming	3
INFO	2242	Professional Internship and Portfolio Development	3
INFO	2250	Networking Fundamentals	3
MATH	1107	Fundamental Concepts of Math (or higher math)	3
MGMT	2214	Office Management	3
PSYC	1101	Introduction to Psychology	3
SPCH	1100	Speech Communication	3

Choose an additional 12 hours from the following:

INFO	2220	Spreadsheet Design	3
INFO	2225	Fundamentals of Web Design	3
INFO	2251	Router Theory and Technologies	3
INFO	2252	Advanced Routing & Switching	3
INFO	2253	Project Based Learning	3
INFO	2255	Fundamentals of UNIX	3
OFAD	2230	Introduction to Word Processing	3
OFAD	2232	Word Processing Applications	3
OFAD	2233	Database Applications	3
OFAD	2250	Desktop Publishing	3
Elective *(Advisor approval required)*			3

INTERPRETER TRAINING PROGRAM

(Associate Arts of Science Degree)

■ Ruby Losh
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With an emphasis upon American Sign Language (ASL), the Sign Language Interpreter training program has been developed with special attention given to the Conference of Interpreter Trainers' (CIT) recommendations for standards and recommendations from various organizations including the Registry of Interpreters for the Deaf (RID), National Association of the Deaf (NAD), West Virginia Association of the Deaf (WVAD), and the West Virginia Commission for the Deaf and Hard of Hearing (WVCDHH). Successful completion of the Sign Language Interpreter Program provides skills necessary to prepare for certification examinations.

Students must make formal application to the program.

- **Interpreter Training Program ..... 64 Semester Hrs.**

FRESHMAN FIRST SEMESTER

AMSL	1111	American Sign Language I (8 Weeks)	3
AMSL	1112	American Sign Language II (8 Weeks)	3
AMSL	1101	Deaf Culture and History	3
ENGL	1104	Written English I	3
SPCH	1100	Introduction to Speech Communication	3
			18

FRESHMAN SECOND SEMESTER

AMSL	1113	American Sign Language III (8 Weeks)	3
AMSL	1114	American Sign Language IV (8 Weeks)	3
AMSL	1104	ASL Fingerspelling	3
ENGL	1108	Written English II	3
- or -			
ENGL	1109	Technical Writing	3
INFO	1100	Computer Concepts and Application	3
SOCY	1110	Introduction to Sociology	3
- or -			
PSYC	1101	Introduction to Psychology	3
			18

SOPHOMORE FIRST SEMESTER

**ITTP	2200	American Sign Language V	3
**ITTP	2201	Sign-to-Voice Interpreting I	3
**ITTP	2202	Voice-to-Sign Interpreting I	3
**ITTP	2203	Simultaneous Interpreting	3
EDUC	2220	Areas of Exceptionality in Special Education	3
			15

SOPHOMORE SECOND SEMESTER

**ITTP	2204	American Sign Language VI	3
**ITTP	2205	Sign-to-Voice Interpreting II	3
**ITTP	2206	Voice-to-Sign Interpreting II	3
**ITTP	2207	Consecutive Interpreting	3
**ITTP	2208	Legal and Ethics Aspects of Interpreting	3
**ITTP	2209	Interpreting as Private Practice	3
			18

** All students must demonstrate a math competency. This competency can be demonstrated by a Math ACT of 19, SAT Quantitative score of 460, COMPASS Math score of 36, or completion of Math 0095.*

*** Students must be admitted to Interpreter Training Program to enroll in any ITTP course.*

LABORATORY ASSISTANT

(One Year Certificate)

■ Dr. Rosemarie Romesburg, Program Director
211 Education Building / (304) 367-4284
rromesburg@fairmontstate.edu

The Laboratory Assistant is a one-year certificate degree program designed to educate and prepare students for work in a laboratory under the supervision of a technologist, technician,

analyst or scientist. Laboratory Assistants may perform a variety of tasks depending upon where they are employed. They may perform phlebotomies, use computers and computer-interfaced equipment; perform quality assurance checks; collect and prepare samples for analysis; clean, maintain and set up equipment used in experiments or laboratory analyses; follow safety procedures; properly dispose of biological wastes; maintain laboratory supplies; perform routine mathematical calculations; or prepare chemical solutions, reagents and media.

Students in the program receive one year (two semesters) of didactic instruction and laboratory training in basic and advanced laboratory skills, technical report writing, general chemistry, basic anatomy and physiology, CPR (Basic Life Support) and safety procedures, venipuncture and capillary puncture techniques and computer concepts and applications. After successful completion of this program the student may go directly into the workforce or choose to apply for admission into one of the associate degree health careers programs or transfer into a baccalaureate degree program. Those graduates of the Laboratory Assistant program who are admitted into one of the competitive associate degree health careers programs at Pierpont Community & Technical College will have completed 13 - 19 hours of credit that will be applied to their specific area of study.

The Laboratory Assistant program is currently affiliated with several medical institutions where students obtain practical experience in blood drawing techniques. Some clinical affiliates require background clearances.

MODEL SCHEDULE I ..... 34 sem. hrs.
(for students who need to complete mathematics, English or chemistry prerequisites)

SUMMER SESSION I & II

English, Math and Chem			Prerequisites variable
EMMS	1109	CPR and Safety	
INFO	1100	Computer Concepts & Applications	3
			4

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
MATH	1107	or higher	3
CHEM	1101	General Chemistry I	4
- or -			
SCIE	1110	Chemistry of Life	4
LABA	1106	Basic Lab Skills Theory	2
LABA	1107	Basic Lab Skills	1
HLCA	1105	Phlebotomy Theory	1
HLCA	1101	Introduction to Health Careers Programs	1
			15

FRESHMAN SECOND SEMESTER

ENGL	1109	Technical Report Writing	3
- or -			
ENGL	1108	Written English II	3
HLCA	2205	Phlebotomy Practicum	1
BIOL	1170	Anatomy and Physiology	4
LABA	2206	Advanced Lab Skills Theory	3
LABA	2207	Advanced Lab Skills	1
HLCA	1100	Medical Terminology	3
			15

MODEL SCHEDULE II ..... 34 sem. hrs.
(for students who have met all mathematics, English and chemistry prerequisites)

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
MATH	1107	or higher	3
LABA	1106	Basic Lab Skills Theory	2
LABA	1107	Basic Lab Skills	1
HLCA	1105	Phlebotomy Theory	1
CHEM	1101	General Chemistry I	4
- or -			
SCIE	1110	Chemistry of Life	4
HLCA	1101	Introduction to Health Careers Programs	1
EMMS	1109	CPR and Safety	1
			16

FRESHMAN SECOND SEMESTER

ENGL	1109	Technical Report Writing	3
- or -			
ENGL	1108	Written English II	3
BIOL	1170	Anatomy and Physiology	4
INFO	1100	Computer Concepts & Applications	3
HLCA	2205	Phlebotomy Practicum	1
LABA	2206	Advanced Lab Skills Theory	3
LABA	2207	Advanced Lab Skills	1
HLCA	1100	Medical Terminology	3
			18

LIBERAL STUDIES

(Associate of Arts)

■ Jean Bolyard
201 Jaynes Hall / (304) 367-4195
mbolyard@fairmontstate.edu

The Liberal Studies Associate of Arts degree is excellent for students who wish to complete a degree before planning a specific career objective. Some technical and professional occupations require applicants to have completed at least two years of college before entering their training programs. The Liberal Studies degree will give students that background.

This degree also benefits those students who are undecided about a major and those who wish to improve their general education or update their skills. The courses follow the Liberal Studies curriculum of Fairmont State University.

The Associate of Arts degree in Liberal Studies is useful for students with the following goals:

- Gaining entrance to a professional and technical occupation that requires applicants to complete at least two years of college level work.
- Completing a two-year degree before planning specific career objectives.
- Continuing or transferring into four-year degree programs.*
- Obtaining a two-year degree when temporarily unable to complete a four-year degree.
- Exploring the liberal arts to facilitate career selection.
- Improving general education.
- Updating skills and knowledge in the liberal arts.

** Students planning to transfer to four-year programs should consult the requirements of those programs to select the most appropriate courses in the Liberal Studies program.*

MODEL SCHEDULE ..... 64 sem. hrs.

FRESHMAN FIRST SEMESTER

First Year Experience: ENGL 1104 3
First Year Experience: MATH 1107 3
(or higher, excluding MATH 1100)
Artistic/Creative Expression: ART 1120, MUSIC 1120, Theatre 1120, INTR 1120 3
Society/Human Interactions: PSYC 1101; SOCI 1110, 1111; ECON 2200, 2201; GEOG 2210; POLI 1103, 2200, 2201, 2203 3
Open electives * 4
16

**At least one hour must be a Liberal Studies option*

FRESHMAN SECOND SEMESTER

First Year Experience: ENGL 1108 3
First Year Experience: INFO 1100 3
First Year Experience: SPCH 1100 3
Culture/Civilization Exploration: HIST 1107, 1108, 2211, 2212, 2213; PHIL 2200, 2250; FREN 1101, 1102, 2201, 2202 or SPAN 1101, 1102, 2201, 2202 3
Open electives 4
16

SOPHOMORE FIRST SEMESTER

Culture/Civilization Exploration: ENGL 2220 and 2221 or ENGL 2230 and 2231 3
Society/Human Interactions: PSYC 1101; SOCI 1110, 1111; ECON 2200, 2201; GEOG 2210; POLI 1103, 2200, 2201, 2203 3
Scientific Discovery: BIOL 1105; CHEM 1101, 1105; GEOL 1101; PHYS 1101, 1105; SCIE 1110**, SCIE 1103**, SCIE 1000*, 1110*, 1010*, 1210*, 1220* 4
Open electives 6
16

SOPHOMORE SECOND SEMESTER

Culture/Civilization Exploration: ENGL 2220 and 2221 or ENGL 2230 and 2231 3
In-depth Artistic/Creative Expression Course or Interdisciplinary/Advanced Studies*** 3
Scientific Discovery: BIOL 1106; CHEM 1102, 1106; GEOL 1102, 1103; PHYS 1102, 1106; SCIE 1199** 4
Open electives 6
16

*** Recommended for non-science majors*
**** Students choose three hours from the following:*

IN-DEPTH ARTISTIC/CREATIVE EXPRESSION

APPD	1116	History of Contemporary Fashion	3
ARCH	1130	Architectural History I	3
ARCH	1160	Architectural History II	3
ART	2278	Art from Prehistoric to 1450	3
THEA	2260	Theatre History	3

PERFORMANCE-BASED COURSES

APPD	1102	Apparel Design	3
ART	1142	Drawing	3
ART	2241	Drawing from Life	3
ART	2261	Painting	3
ART	2283	Modeling and Sculpture	3
DANC	1100	Intro to Ballroom Dancing	2
GRAP	2225	Basic Photography	3
GRAP	2290	Electronic Art & Computer Imaging	3
MUSI	1105	Functional Piano 1-IV	1
MUSI	1139	Voice Class	1
MUSI	1167	Collegiate Singers	2
MUSI	1168	Marching Band	1
MUSI	1169	Concert Band	1
MUSI	1172	Orchestra	1
MUSI	2247	Stage Band	1
MUSI	2277	Chamber Choir	1
RECR	1146	Folk & Square Dancing	2
THEA	1148	Theatre Workshop I	1
THEA	2212	Theatrical Makeup	1
THEA	2220	Oral Interpretation	3
THEA	2230	Acting	3
THEA	2238	Acting Workshop I	1
THEA	2244	Intro to Theatrical Design	3
PHED	1100	Fitness & Wellness	2

INTERDISCIPLINARY/ADVANCED STUDIES

FOLK	2200	Introduction to Folklore	3
INTR	1100	Race, Class, and Gender	3
INTR	2201	Introduction to Women's Studies	3
INTR	2280	Empowering Leadership	3
INTR	2281	Great Ideas of Leaders	3

PRE-SOCIAL WORK CONCENTRATION

■ Joe Larry
321 Hardway Hall
367-4696
jlarry@fairmontstate.edu

The Pre-Social Work Concentration component of the Liberal Studies Degree provides the basis for the first two years of a 2 + 2 agreement in Social Work between Pierpont Community & Technical College and West Virginia University.

Entry into the Social Work major at West Virginia University is competitive. In addition to the courses listed in the model schedule Pierpont Community & Technical College students must have minimum overall GPA of 2.25, 100 hours of documented pair or volunteer experience, a written personal statement, and a letter of reference. Students who qualify will compete with other WVU students and transfers for 60 slots.

MODEL SCHEDULE ..... 64-65 sem. hrs

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
		(Must have ACT ENGL 18 or ENGL 0097)	
MATH	1107	Fundamental Concepts or higher math	3
		(Must have ACT MATH 19 or MATH 0095 Introductory Algebra)	
ART	1120	Art Appreciation	3
PSYC	1101	General Psychology	3
SPCH	1100	Intro. To Speech Comm.	3
			15

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
		(Must have "C" or better in ENGL 1104)	
ENGL	2200	World Literature I	3
- or -			
ENGL	2230	Introduction to Literature I	3
INFO	1100	Comp. Concepts and Applications	3
SOCY	1110	Intro. To Sociology	3
Science discovery course			4
			16

SOPHOMORE FIRST SEMESTER

BIOL	1105	Biological Principles I	4
INTR	1100	Race, Class, Gender	3
HIST	1107	US History I	3
SOCY	1151	Introduction to Social Work *(Must to earn "C" or better)*	3
SOCY	2200	Social Problems	3
			16

SOPHOMORE SECOND SEMESTER

ENGL	2221	World Literature II	3
- or -			
ENGL	2231	Introduction to Literature II *(Must have "C" in ENGL 1104)*	3
INTR	2201	Intro. To Women's Studies	3
- or -			
INTR	2280	Empowering Leadership	3
- or -			
INTR	2281	Great Ideas of Leaders	3
POLI	2200	Introduction to Political Science	3
SPAN	1101	Elementary Spanish	3
THEA	1120	Intro. To Theatre	3
Elective			2 or 3
			17-18

MECHANICAL ENGINEERING TECHNOLOGY

(Associate of Science)

(See Fairmont State University)

MEDICAL LABORATORY TECHNOLOGY

(Associate of Applied Science)

■ **Dr. Rosemarie Romesburg, Program Coordinator**
211 Education Building / (304) 367-4284
rromesburg@fairmontstate.edu

The two-year Medical Laboratory Technology (MLT) Program is nationally accredited by the National Accrediting Agency for Clinical Laboratory Sciences, 8410 Bryn Mawr Avenue, Suite 670, Chicago, IL 60631, 773-714-8880. The MLT Program provides learning experiences both on the Fairmont State campus and in a clinical setting. In addition to general studies requirements and a laboratory based general science curriculum, 46 credit hours are required in MLT clinical lecture and laboratory courses, integrated with a hospital or clinic based practicum experience to complete the degree. Students will attend one or more of the following clinical affiliates during the second year of MLT instruction: Davis Memorial Hospital in Elkins; Fairmont Clinic in Fairmont; Fairmont General Hospital in Fairmont; St. Joseph's Hospital in Buckhannon; Grafton City Hospital in Grafton; Preston County Memorial Hospital in Kingwood; Stonewall Jackson Memorial Hospital in Weston; Louis A. Johnson VA Medical Center; the United Hospital Center in Clarksburg; The Washington Hospital in Washington, PA and The Institute for Transfusion Medicine in Pittsburgh, PA. Students must be willing to drive to these sites or any other site that becomes an affiliate of the MLT program. To be considered for admission to the MLT program, the applicant must:

- Meet the general admission requirements of Pierpont Community & Technology College.
- Have successfully completed courses in Biology, Chemistry and Algebra in high school or college.
- Have a score of 19 or better in the Math portion of the ACT (or SAT equivalent) or a 36 or better in the COMPASS algebra test, or have successfully completed Math 0095.
- Have a score of 18 or better in the English portion of the ACT (or SAT equivalent) or a 71 or better in the COMPASS writing test, or have successfully completed ENGL 0097. (Students who have completed ENGL 1104 do not need to complete ENGL 0097.
- Submit an application for admission designating associate degree medical laboratory technology as a major field of study, official ACT or SAT scores, GED or high school transcripts, and college transcripts to the Registrar's Office by January 31 to be considered for the following academic year. If space is available in the class, applications will be considered after the deadline.

An impartial scoring system is employed to rank the MLT applicants. ACT or SAT scores, high school or college GPA or GED scores, grades in chemistry, biology and algebra and college courses completed which are applicable to the MLT degree are considered in the evaluation process. Applicants who are not admitted to the program must reapply if they wish to be considered for acceptance the following academic year.

To remain in the MLT program, a student must obtain a "C" or above in every MLT class and maintain an overall GPA of 2.0, and a science GPA of 2.0. Failure to meet any of these requirements will result in dismissal from the program. Students who have been dismissed may reapply to the program and their credentials will be reevaluated. To graduate from the MLT program, a student must have a cumulative GPA of at least 2.0.

Graduates of the MLT program are eligible and encouraged to take a national certification examination. However, graduation from the MLT program is not contingent upon passing any certification examination. Program graduates may work in hospitals, clinics, independent laboratories, physician's offices, public health agencies, pharmaceutical labs, and research laboratories. Graduates may also continue in higher education earning a Bachelor's and/or Master's degree in Medical Technology, Allied Health, Education or a related field. Some graduates pursue medical school or doctoral studies.

MODEL SCHEDULE ..... 72-73 sem. hrs.

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
MATH	1100	Intermediate Algebra	3
- or -			
MATH	1106	Applied Math in Health Careers	3
- or -			
MATH	1107	General Math	3
- or -			
MATH*	1112	College Algebra	3
CHEM	1101	General Chemistry	4
- or -			
CHEM*	1105	Chemical Principles	5
BIOL	1170	Anatomy & Physiology	4
MLAB	1103	Clinical Serology	2
HLCA	1105	Phlebotomy Theory	1
			17-18

FRESHMAN SECOND SEMESTER

CHEM	1102	General Chemistry Principles	4
or			
CHEM*	1106	Chemical	4

MLAB	1104	Urinalysis and Body Fluids	2
MLAB	1105	Lab Math & Instrumentation	3
MLAB	1160	Clinical Microbiology I	4
MLAB	1180	Immunohematology	4
			17

SUMMER I

MLAB	2218	Hematology	4

SUMMER II

ENGL	1108	Written English II	3

SOPHOMORE FIRST SEMESTER

MLAB	2219	Clinical Microbiology II	4
MLAB	2220	Clinical Biochemistry	4
MLAB	2221	Clinical Practicum I	4
MLAB	2222	Clinical Practicum II	4
			16

SOPHOMORE SECOND SEMESTER

PSYC	1101	Introduction to Psychology	3
MLAB	2223	Clinical Practicum II	4
MLAB	2224	Clinical Practicum IV	4
MLAB	2225	Seminar	2
MLAB	2226	Clinical Case Studies	2
			15

** MATH 1112, CHEM 1105 and 1106 are recommended courses for students intending to pursue a bachelor's degree and certification as a Medical Technologist (MT).*

OFFICE MANAGEMENT AND TECHNOLOGY

(Associate of Applied Science)

■ Nancy Lawler
127 Colebank Hall / (304) 367-4731
nlawler@fairmontstate.edu

■ Donna Snyder
131 Colebank Hall / (304) 367-4188
dsnyder@fairmontstate.edu

The work environment has undergone drastic changes in the past few years. Among these changes is the role of the administrative support person in the workplace. This role has expanded into one that is broader in scope and requires more critical thinking, organizational, and decision-making abilities than ever before. The administrative assistant must also be proficient in major computer applications found in suite software, such as word processing, electronic presentations, spreadsheets, and database applications. The two-year Office Management and Technology program provides students with the updated skills and abilities that are expected of today's office support personnel.

- **Administrative Office Management Specialization ..... 66 sem. hrs.**
- **Required Courses ..... 57 sem. hrs.**

ACCT	2201	Principles of Accounting I	3
BUSN	1102	Introduction to Business	3
BUSN	1141	Business Mathematics	3
BUSN	2210	Human Relations in Business	3
BUSN	2251	Corporate Communications	3
ENGL	1104	Written English I	3
ENGL	1109	Technical Report Writing	3
FINC	2230	Financial Literacy	3
INFO	1100	Computer Concepts and Applications	3
INFO	2220	Spreadsheet Design	3
MGMT	2214	Office Management	3
OFAD	2232	Word Processing Applications	3
OFAD	2233	Database Applications	3
OFAD	2240	Administrative Office Procedures	3
OFAD	2241	Workplace Productivity	3
OFAD	2242	Professional Internship and Portfolio Development	3
OFAD	2250	Desktop Publishing	3
PSYC	1101	Introduction to Psychology	3
SPCH	1100	Introduction to Speech Communication	3

Choose an additional 9 hours from the following:

ACCT	2202	Principles of Accounting II	3
INFO	2200	Fundamentals of Information Systems	3
INFO	2225	Fundamentals of Web Design	3
OFAD	2245	Microsoft Office Specialist Certification Prep.	1-6
OFAD	2248	Business Essentials	3
Elective (Advisor approval required)			3

MODEL SCHEDULE ..... 66 sem. hrs.

FRESHMAN FIRST SEMESTER

ACCT	2201	Principles of Accounting I	3
BUSN	1102	Introduction to Business	3
BUSN	1141	Business Math	3
ENGL	1104	Written English I	3
INFO	1100	Computer Concepts & Application	3
			15

FRESHMAN SECOND SEMESTER

BUSN	2210	Human Relations in Business	3
ENGL	1109	Technical Report Writing	3
FINC	2230	Financial Literacy	3
PSYC	1101	Introduction to Psychology	3
SPCH	1100	Introduction to Speech Communication	3
Administrative Office Management Elective			3
			18

SOPHOMORE FIRST SEMESTER

BUSN	2251	Corporate Communications	3
OFAD	2232	Word Processing Applications	3
OFAD	2233	Database Applications	3
OFAD	2240	Administrative Office Procedures	3
OFAD	2250	Desktop Publishing	3
Administrative Office Management Elective			3
			18

SOPHOMORE SECOND SEMESTER

INFO	2220	Spreadsheet Design	3
MGMT	2214	Office Management	3
OFAD	2241	Workplace Productivity	3
OFAD	2242	Professional Internship & Portfolio Development	3
Administrative Office Management Elective			3
			15

OFFICE TECHNOLOGY

(Skill Set)

■ Nancy Lawler
127 Colebank Hall / 367-4731
nlawler@fairmontstate.edu

■ Donna Snyder
131 Colebank Hall / 367-4188
dsnyder@fairmontstate.edu

This program is designed for the individual who wants a practical foundation in office technology. It prepares the student to handle a wide variety of office and administrative tasks, and emphasizes the most widely used software suites and applications.

- **Office Technology ..... 18 sem. hrs.**
- **Required Courses ..... 9 sem. hrs.**

BUSN	2210	Human Relations in Business	3
BUSN	2251	Corporate Communications	3
INFO	1100	Computer Concepts & Applications	3

Choose three courses from the following:

INFO	2220	Spreadsheet Design	3
OFAD	2232	Word Processing Applications	3
OFAD	2233	Database Applications	3
OFAD	2245	Microsoft Office Specialist Certification Preparation	1-6
OFAD	2250	Desktop Publishing	3

For Office Technology Associate Degree See Office Management & Technology

OCCUPATIONAL DEVELOPMENT

(Associate of Applied Science Degree)

- **Building and Construction Trades ..... 64 sem. hrs.**
- **Early Childhood Practitioner ..... 64 sem. hrs.**
- **Correctional Officer ..... 68 sem. hrs.**
- **Emergency Medical Services Specialist ..... 72 sem. hrs.**
- **Fire Fighter ..... 65 sem. hrs.**
- **Food Service Specialist ..... 64 sem. hrs.**

The Associate of Applied Science degree program in Occupational Development involves a formal partnership between Pierpont Community and Technical College, the U.S. Department of Labor Bureau of Apprenticeship and Training, and labor unions. Apprentices who seek the A.A.S. in Occupational Development earn part of their college credits from designated classroom training and On-the-Job training that are required in their apprenticeship programs and other college credits through enrollment in courses at Pierpont Community and Technical College. These A.A.S. degrees require a total of 64-72 credits.

For additional information on the availability of Occupational Development Degrees and specific requirements, contact the Community and Technical College Office.

PARA-EDUCATION

(Associate of Arts Degree)

■ Kristie Latocha, Program Coordinator
137 Education Building / (304)367-4919
klatocha1@fairmontstate.edu

This program is for paraprofessionals in the elementary and secondary classrooms. The intent of the curriculum is to provide a pathway from aide to teacher through a step process which begins with certificates and builds towards an associate and then towards a bachelor's degree.

- **Required Courses ..... 64 sem. hrs.**

(PR: English ACT 19+ or SAT 450 or Compass 71 or ENGL 0097)

ENGL	1104	Written English I	3
ENGL	1108	Written English II	3
EDUC	1105	Basic Skills for Instructional Support*	3
EDUC	2200	Introduction to Education	3
EC	1105	Development of Young Children	3
-or-			
EDUC	2202	Human Growth & Development** *(includes clinical lab)*	3
EDUC	2206	Instructor Support Strategies*	3
EDUC	2207	Behavior Support Strategies*	3
EDUC	2220	Areas of Exceptionality in Special Education	3
Fine Arts Appreciation, ART, MUSI, or THEA 1120			3
PSYC	1101	Introduction to Psychology	3
INFO	1100	Computer Concepts & Applications	3
INTR	1100	Race, Class & Gender	3
Literature Elective from General Education			3
MATH	1107	Fundamental Concepts *(PR: Math ACT 19 or SAT 460 or MATH 0095 or Compass greater /equal 36)*	3
MATH	1110	Math for Elementary Education *(PR: ACT 19 or MATH 0095)*	3
Human/Social Interactions elective (1100 or 2200 level) General Education			6
Scientific Discovery courses from General Education			8
SAFE	2200	Accident Analysis & Emergency Care	2
- or -			
HLTA	1100	Personal Health	3
SPCH	1100	Intro to Speech Communication	3

** Transfers as Education elective into BS Education*
*** provisional admittance into teacher education*

MODEL SCHEDULE ..... 65 sem. hrs.

FRESHMAN FIRST SEMESTER

ENGL	1104	3
EDUC	1105*	3
PSYC	1101	3
INTR	1100	3
MATH	1107***	3
Fine Arts	1120	3
		18

FRESHMAN SECOND SEMESTER

ENGL	1108	3
EDUC	2206*	3
EDUC	2200	3
INFO	1100	3
MATH	1110***	3
		15

SOPHOMORE FIRST SEMESTER

EDUC	2207*	3	
EDUC	2220	3	
Human Social Interactions Elective			3
Literature Elective			3
Scientific Discovery Course			4
			16

SOPHOMORE SECOND SEMESTER

SPCH	1100		3
EC 1105 or EDUC 2202**			3
Human Social Interactions Elective			3
Scientific Discovery Course			4
HLTA	1100		3
			16

**transfers as an elective into education*
***includes clinical lab/provisional admittance into teacher education*
****MATH 1107/1110-PR: ACT 19 or MATH 0095*

PARAPROFESSIONAL IN EDUCATION

(One year Certificate)

■ Kristie Latocha, Program Coordinator
137 Education Building / (304) 367-4919
klatocha1@fairmontstate.edu

This program is for paraprofessionals in the elementary or secondary classrooms or individuals serving as Teacher Aids IV. The curriculum is meant to provide a pathway from aide to teacher through a step process that begins with certificate coursework and continues through various levels that will build towards an associate and /or a bachelor degree.

• **Model Schedule** ..... **36 sem. hrs.**

FALL SEMESTER-FIRST YEAR

EDUC	1105	Basic Skills for Instructor Support*	3
EDUC	2200	Introduction to Education	3
ENGL	1104	Written English 1	3
INTR	1100	Race, Class, & Gender	3
INFO	1100	Computer Concepts & Application	3
PSCY	1101	Introduction to Psychology	3
			18

SECOND SEMESTER-FIRST YEAR

EC	1105	Development of Young Children	3
-or-			
EDUC	2202	Human Growth & Development** *(includes clinical lab)*	3
EDUC	2206	Instructor Supp Strategies*	3
EDUC	2207	Behavior Supp Strategies*	3
EDUC•	2220	Areas of Ex in Special Ed	3
SAFE	2200	Acc. Ana. & Emer Care	2
SPCH•	1100	Intro to Speech	3
			18

** transfers as Education elective for BA in Education*
*** provisional admittance into teacher education*
• 18 hour skill set certificate equivalent to WVDOE qualifications for Teacher Aide IV

PARALEGAL STUDIES

(Associate of Applied Science)

■ Jeani Hawkins, Director
Lewis County Center / 269-6389
jhawkins1@fairmontstate.edu

Paralegals are highly skilled paraprofessionals who work in a variety of settings under the direct supervision of an attorney. Job responsibilities require the Paralegal to have knowledge of the law and legal procedures, interviewing and case investigation skills, the ability to conduct legal research and prepare and manage legal documents. Interpersonal communication and office management skills are also important for success. The Associate of Applied Science in Paralegal Studies is designed to build professional competencies in each of these areas.

• **Associate Degree** ..... **64 sem. hrs.**
• **General Education Core** ..... **28 sem. hrs.**

ENGL	1104	Written English I	3
ENGL	1108	Written English II*	3
ENGL	1109	Technical Report Writing *("C" or better required)*	3
SPCH	1100	Introduction to Speech Communication	3
MATH	1107	Fundamental Concepts in Mathematics	3
INFO	1100	Computer Concepts and Applications	3

Social Science Electives (Select 2 Courses)

POLI	1103	American Government	3
SOCY	1110	Introduction to Sociology	3
PSYC	1101	Introduction to Psychology	3

Natural Science Electives (Select 1 Course)

SCIE	1000	Human Biology	4
SCIE	1103	Science that Matters	4
SCIE	1199	Earth and Sky	4

• **Required Courses** ..... **27 sem. hrs.**

PARA	1101	Introduction to Paralegal Studies	3
PARA	1102	General Law I	3
PARA	1103	General Law II*	3
PARA	2201	Legal Research and Writing I	3
PARA	2202	Legal Research and Writing II*	3
PARA	2203	Computer Appl. for Legal Professionals*	3
PARA	2204	Civil Litigation and Procedure*	3
PARA	2220	Paralegal Professional Practicum	3
FINC	2260	Real Estate Principles	3

• **Elective Courses+** ..... **9 sem. hrs.**

BUSN	3306	Business Law I	3
BUSN	3307	Business Law II*	3
CRJU	2202	Principles of Criminal Law	3
CRJU	2240	Adjudication Process*	3
HLIN	1110	Legal and Ethical Aspects of Health Info.*	3
MGMT	2214	Office Management	3
PARA	2210	Domestic Relations Law	3
PARA	2211	Administrative Advocacy	3
PARA	2212	Torts	3
PARA	2213	Property and Probate	3
PARA	2214	Bankruptcy Law	3

** Requires Prerequisite or Permission*
+ Elective Courses must be approved by an Academic Advisor

PHYSICAL THERAPIST ASSISTANT

(Associate of Applied Science)

■ Beverly Born, PT Ed. D., Program Coordinator
310A Caperton Center / 367-4042
bborn@fairmontstate.edu

The Physical Therapist Assistant (PTA) is a licensed health care provider who works within a physical therapy setting under the supervision of a Physical Therapist. The PTA assists in the practice of physical therapy by performing delegated patient-related activities. These activities include performing selected treatment procedures, and observing, recording and reporting of patient responses. Career opportunities for PTAs can be found in hospitals, clinics, rehabilitation centers, nursing care facilities, offices of physical therapists in private practice, and in home health care.

Admission to the PTA program is competitive. A numerical score sheet is used to select 20 students for each class. Points are assigned for GPA, ACT scores, grades in algebra, biology, chemistry, physics and certain other college courses. The students with the highest scores are chosen. To be considered for admission, applicants must have at least a 2.0 grade point average, a score of 18 or higher on the English portion of the ACT, and grades of C or better in biology, chemistry, physics, and algebra taken in high school or college. Successful completion of English 0097 or 1104 substitutes for low ACT. A Pierpont Community & Technical College application, PTA program application, official high school and college transcripts, and official ACT or SAT scores must be submitted to the Director of Admissions by January 31 for the next entering class.

Students must have a "C" or better in every course that is part of the curriculum and at least a 75% test average in PTA courses to continue in the program. Following successful completion of the program, students are eligible to take the licensing examination.

• **Physical Therapist Assistant** ..... **70 sem. hrs.**

REQUIRED COURSES:

HLCA	1100	Medical Terminology	3
HLCA	1102	Pathophysiology of Disease	3
BIOL	1170	Anatomy and Physiology	4
ENGL	1104	Written English I	3
ENGL	1108	Written English II	3
INFO	1100	Computer Concepts	3
PHTA	1100	Introduction to Physical Therapy	2
PHTA	1101	Patient and Professional Relationships	2
PHTA	1102	Introduction to Patient Care	3
PHTA	1103	Techniques I	3
PHTA	1104	Techniques II	2
PHTA	1105	Kinesiology	3
PHTA	1106	Clinical Ed. I	1
PHTA	1108	Clinical Ed. II	2
PHTA	2200	Physical Therapist Assistant Techniques III	4
PHTA	2201	Physical Therapist Assistant Techniques IV	4
PHTA	2202	Physical Therapist Assistant Techniques V	4
PHTA	2204	Clinical Ed. III	3
PHTA	2205	Capstone Seminar	2
PHTA	2206	Clinical Education IV	5
PHTA	2207	Clinical Education V	5
PSYC	1101	Introduction to Psychology	3
SPCH	1100	Intro. to Speech Communication	3

MODEL SCHEDULE ..... **70 sem. hrs.**

FRESHMAN FIRST SEMESTER

HLCA	1100	Medical Terminology	3
BIOL	1170	Anatomy and Physiology	4
ENGL	1104	Written English I	3
PSYC	1101	Introduction to Psychology I	3
PHTA	1100	Introduction to Physical Therapy	2
INFO	1100	Computer Concepts	3
			18

FRESHMAN SECOND SEMESTER

HLCA	1102	Pathophysiology of Disease	3
ENGL	1108	Written English II	3
PHTA	1101	Patient and Professional Relationships	2
PHTA	1102	Introduction to Patient Care	3
PHTA	1103	Techniques I	3
PHTA	1105	Kinesiology	3
PHTA	1106	Clinical Ed. I	1
			18

SUMMER FIRST TERM

PHTA	1104	Techniques II	2
PHTA	1108	Clinical Ed. II	2
			4

SOPHOMORE FIRST SEMESTER

PHTA	2200	Physical Therapist Assist. Techniques III	4
PHTA	2201	Physical Therapist Assist. Techniques IV	4
PHTA	2202	Physical Therapist Assist. Techniques V	4
PHTA	2204	Clinical Ed. III	3
SPCH	1100	Intro. to Speech Communication	3
			18

SOPHOMORE SECOND SEMESTER

PHTA	2205	Capstone Seminar	2
PHTA	2206	Clinical Education IV	5
PHTA	2207	Clinical Education V	5
			12

RESPIRATORY CARE

(Associate of Applied Science)

■ Dr. Subhra Datta
312 Caperton Center
304-367-4044
sdatta@fairmontstate.edu

The Respiratory Care Program is a stand alone eighteen-month Associate of Applied Science degree. The program is designed to meet the standards as outlined by the committee on Accreditation for Respiratory Care (CoARC) and the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Graduates of the program will be eligible to take the Certified Respiratory Therapist (CRT) and Registered Respiratory Therapies (RRT) credentialing exam offered by the National Board for Respiratory Care (NBRC). Upon successful attainment of the CRT credential, the graduate can be licensed by the West Virginia Board of Respiratory Care (WVBORC), and be legally eligible for employment as a Licensed Respiratory Therapist in the state of West Virginia. The graduate will also be eligible to work elsewhere by fulfilling the licensing requirements for that state or country.

The program goal is to prepare competent Respiratory Therapists in the cognitive, psychomotor and affective learning domains. The program will ensure an appropriate sequence

of classroom, laboratory, and clinical activities consistent with training appropriate for the AAS degree level Respiratory Therapist.

Job opportunities are expected to be very good for respiratory therapists with cardiopulmonary care skills or experience working with infants. Employment of respiratory therapists is expected to increase approximately twice as fast as the average for all occupations through the year 2012, because of substantial growth in numbers of the middle-aged and elderly population-a development that will heighten the incidence of cardiopulmonary disease.

The median annual salary for Registered Respiratory Therapist was $40,220 in 2002 according to the Bureau for labor Statistics. The middle 50 percent earned between $34,430 and $46,130. In general, respiratory therapists working at medical and surgical hospitals earned $40,390 in 2002. In West Virginia the median salary is slightly lower, but the need for therapists continues to grow and salaries continue to climb.

In the northern West Virginia area, hospitals in particular are experiencing a shortage of qualified respiratory therapists. Because of the unique eighteen-month structure of this program, graduate therapists will be available for work at a time more needed by employers.

REQUIRED COURSES

- Respiratory Care ..... 69 sem. hrs.

BIOL	1170	Anatomy and Physiology	4
CHEM	1101	General Chemistry	4
ENGL	1104	Written English I	3
ENGL	1109	Technical Report Writing *("C" required)*	3
INFO	1100	Computer Concepts and Applications	3
MATH	1106	Applied Math in Health Careers	3
RESP	1101	Introduction to Respiratory Care	3
RESP	1103	Respiratory Care Pharmacology	3
RESP	1105	Clinical Practice I	4
RESP	1107	Mechanical Ventilation I	3
RESP	1109	Respiratory Pathophysiology	3
RESP	1110	Clinical Practice II	4
RESP	1112	Neonatal/Pediatric Respiratory Care	3
RESP	1114	Mechanical Ventilation II	3
RESP	1115	Clinical Practice III	4
RESP	1200	Respiratory Care Capstone *(on-line)*	3
RESP	1202	Respiratory Care Exam Preparation *(on-line)*.	2
RESP	1204	Respiratory Care Internship	2
RESP	1205	Neonatal /Pediatric Clinical Practice	4
RESP	1210	Intensive Respiratory Care	4
RESP	1215	Clinical Practice IV	4

MODEL SCHEDULE ..... 69 sems. hrs.

SUMMER SEMESTER 1

RESP	1101	Introduction to Respiratory Care	3
RESP	1103	Respiratory Pharmacology	3
			6

SUMMER SEMESTER 2

RESP	1105	Clinical Practice I	4
INFO	1100	Computer Concepts and Applications	3
			7

FRESHMAN FIRST SEMESTER

RESP	1107	Mechanical Ventilation I	3
MATH	1106	Applied Math in Health Careers	3
BIOL	1170	Anatomy and Physiology	4
ENGL	1104	Written English I	3
RESP	1110	Clinical Practice II	4
			17

FRESHMAN SECOND SEMESTER

RESP	1109	Respiratory Pathophysiology	3
RESP	1112	Neonatal/Pediatric Respiratory Care	3
RESP	1115	Clinical Practice III	4
RESP	1114	Mechanical Ventilation II	3
ENGL	1109	Technical Report Writing *("C" required)*	3
			16

SUMMER SEMESTER 1

RESP	1205	Neonatal/Pediatric Clinical Practice	4

SUMMER SEMESTER 2

RESP	1205	Intensive Respiratory Care	4

SOPHOMORE FIRST SEMESTER

RESP	1215	Clinical Practice IV	4
CHEM	1101	Chemistry	4
RESP	1204	Respiratory Care Internship	2
RESP	1200	Respiratory Care Capstone *(on-line)*	3
RESP	1202	Respiratory Care Exam *(on-line)*	2
			15

SAFETY ENGINEERING TECHNOLOGY

(Associate of Science)

(See Fairmont State University)

TECHNICAL STUDIES

(Associate of Applied Science)

■ Richard McCormick
230 Hardway Hall / (304) 367-4692
richmccormick@fairmontstate.edu

The Associate of Applied Science degree program in Technical Studies is designed for employees participating in approved education and training programs sponsored by business, industry, labor, or government to earn a two-year degree. Existing eligible education and training programs or custom designed programs determine a specific course of study for each program. Students who seek the Technical Studies degree earn part of their college credits from designated classroom training programs and On-the-Job training. Additional credits are earned through courses at Pierpont Community & Technical College. The Technical Studies degree requires a total of 64-72 credits. For additional information on the availability of Technical Studies Degrees and specific requirements, contact the Community and Technical College Office.

- Highway Technician ..... 72 sem. hrs.
- Water and Wastewater Treatment ..... 71 sem. hrs.
- Wood Production Technology ..... 64 sem. hrs.
- Automotive Technology ..... 64 sem. hrs.
- Radiologic Technology ..... 64 sem. hrs.
- Information Systems (WV ExcITe)

RADIOLOGIC CARE TECHNOLOGY

(Associate of Applied Science Technical Studies)

Pierpont Community & Technical College has a partnership with United Hospital Center or West Virginia University Hospitals for radiologic technology.

Applicants for AAS in Technical Studies in Radiologic Technology will apply to Pierpont Community & Technical College.

Students will select the hospital program for which they are applying and applications will be forwarded to the specific hospital for evaluation. All supporting materials shall be sent to FSC & TC and made available to the hospital based faculty to assist in their admission deliberations. Students must apply and be accepted into the hospital program of their choosing.

Students should contact either, West Virginia University Hospitals, www.wvuhradtech.com or United Hospital Center, www.uhcwv.org

VETERINARY TECHNOLOGY

(Associate of Applied Science)

■ Anna Romano, RVT- Program Coordinator
116 Hunt-Haught / (304) 367-4763
aromano@fairmontstate.edu

The Veterinary Technology Program prepares individuals for careers as Veterinary Technicians in the very dynamic field of veterinary medicine. This is not a pre-veterinary medicine course of study. Graduates of the program are eligible to take the Veterinary Technician National Exam (VTNE) to become Registered Veterinary Technicians. The program is accredited by the American Veterinary Medical Association (AVMA).

Veterinary technicians work with veterinarians in all aspects of animal health, disease and welfare. Career opportunities include employment in a variety of animal care settings such as: private practice, herd health management, biomedical research, pharmaceutical sales, government, zoos, emergency medicine and academic instruction.

Admission to the Veterinary Technology program is competitive. Applications should be received by the Office of Admissions by March 1st to be considered for the following academic year. If space is available, applications will be considered after the deadline. Official high school and college transcripts and official ACT or SAT scores must also be submitted. Applicants who are not admitted to the program must reapply to be considered for acceptance for the following year.

Applicants to the program must have:

- a minimum grade point average (GPA) of 2.0
- a score of 18 or better on the English portion of the ACT (or SAT equivalent) or successful completion of ENGL 0097 or English 1104 (COMPASS test of 71 or better)
- a score of 19 or better on the Math portion of the ACT (or SAT equivalent) or successful completion of MATH 0095 (COMPASS test of 36 or better)
- successfully completed high school algebra and chemistry (or college alternative)
- experience in a veterinary hospital is highly desirable

To remain in the Veterinary Technology Program, a student must receive a grade of "C" or above in every VETT course, as well as: HLCA 1100, CHEM 1101, BIOL 1170 and BIOL 2205. The student must also maintain an overall GPA of 2.0. Failure to meet any of these requirements will result in dismissal from the program. Readmission to the VETT Program will be determined by reapplication and reacceptance. Students in good standing who withdraw from the program for unpredicted or uncontrollable reasons will be given priority consideration.

MODEL SCHEDULE ..... 76 sem. hrs.

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
HLCA	1100	Medical Terminology	3
VETT	1113	Introduction to Veterinary Technology	3
VETT	1114	Breeds and Breeding	2
VETT	1130	Animal Parasitology	3
VETT	1170	Anatomy & Physiology	4
			18

FRESHMAN SECOND SEMESTER

BIOL	2205	Technical Microbiology	4
INFO	1100	Computer Concepts & Applications	3
VETT	1116	Clinical Procedures	5
VETT	1122	Veterinary Pharmacology	3
VETT	2210	Laboratory Animal Techniques I	3
			18

SUMMER FIRST TERM

ENGL	1108	Written English II	3
VETT	2271	Preceptorship I	4
			7

SOPHOMORE FIRST SEMESTER

CHEM	1101	General Chemistry	4
VETT	2212	Health Management of Farm Animals	4
VETT	2217	Clinical Laboratory Procedures	4
VETT	2222	Diseases of Domestic Animals	4
General Studies Elective			3
			19

SOPHOMORE SECOND SEMESTER

VETT	1108	Seminar	2
VETT	2271	Preceptorship II	12
			14

NON-CREDIT TRAINING PROGRAMS

■ Paul Schreffler, Director
Economic Development and Workforce Education
320 Adams Street, Suite G01, Fairmont / (304) 367-4920
pschreffler@fairmontstate.edu

APPRENTICE UNDERGROUND MINER PROGRAM

A new miner orientation program is offered at various locations through out C&TC's 13-county service region. The course is designed to prepare the trainees for the WV Office of Miner's Health and Safety's certification exam that is required to become an entry-level underground coal miner. Trainees will be exposed to a general orientation in mining, mining health and safety, mine gases and ventilation, roof and ribs, haulage, emergency response, accident prevention and hazard recognition, and miner and operator rights and responsibilities. Participants must be 18 years of age or older. Class size is limited to 25 persons and attendance is mandatory as required by state law.

CERTIFIED PROCEDURAL (PROFESSIONAL) CODING PROGRAM

Through the American Academy of Professional Coders (AAPC), C&TC's Center for Workforce Education offers the AAPCs Professional Medical Coding Curriculum (PMCC) for the Certified Procedural (Professional) Coder (CPC) certification training and CPC certification exam. A CPC may obtain employment in a variety of settings, but most generally in a type of physician practice setting. This training program has been prepared

by the AAPC and is aimed at providing the most up-to-date information relating to Current Procedural Terminology (CPT), Health Care Financing Administration (HFCA), now known as the Centers for Medicare Medicaid Services (CMS), HFCA's Common Procedural Coding System (HCPCS) and Internal Classification of Diseases, 9th revision, Clinical Modification (ICD-9-CM) procedural and diagnostic coding.

This modular program is an 80 hour non-academic-credit training course. The course curriculum is presented in a 20 module/chapter format. Chapters include medical terminology and anatomy overviews, with CPT and ICD-9-CM coding issues organized in a way that is consistent with the updated American Medical Association's Current Procedural Terminology. The material is designed to prepare individuals to take the national certification exam to become a CPC.

Interested participants must have a background in Anatomy & Physiology and Medical Terminology either through work or educational experience. The general requirement for taking the national exam is two years coding experience. One year is waived by participating in this program of study. Upon completion of the program, the student is eligible to take the exam. Upon achieving the requisite score on the exam as determined by AAPC, and fulfilling the necessary requirements, the student will earn the title Certified Procedural Coder (CPC) or Certified Procedural Coder Apprentice (CPC-A). A CPC-A certificate is awarded to each student who successfully passes the CPC exam but lacks the required experience in the coding field. A CPC-A can become a CPC if after one year of work experience in the coding field, the employer submits to AAPC verification of said employment.

CERTIFIED PROTECTION OFFICER (CPO) PROGRAM

This 80-hour program provides the skills and knowledge to perform the roles, duties and responsibilities of the protection officer. It will also significantly improve the job performance and job enjoyment of those presently working in the field, who strive for high levels of career achievement and who hope to gain a broader understanding of the principles of asset protection in the interest of the public, clients and employees.

Students completing the program will have the opportunity to obtain Certified Protection Officer (CPO) status. This national certification, offered by the International Foundation for Protection Officers (IFPO), can be achieved after successfully completing the program and passing the independent IFPO proctored online final examination, the CPO Final Challenge. The principal instructor for the program is a Certified IFPO Instructor.

Candidates will be administered and must pass a physical exam, drug screening, and background check before acceptance into this program.

As the content of this program is taken directly from our existing Criminal Justice curriculum, students successfully completing this program will also be eligible to be awarded three academic credit hours upon admittance into Pierpont Community & Technical College's Criminal Justice AAS degree program. This allows for a seamless transition into the college program if students elect to continue their education beyond this short-term training program.

INFORMATION TECHNOLOGY PROGRAMS

Through a partnership developed with New Horizons Computer Learning Center, C&TC's Center for Workforce Education is providing cutting-edge non-academic credit computer application and technical training to individuals and businesses throughout North Central West Virginia. Since 1982, New Horizons Computer Learning Centers has grown to become the largest independent IT training company worldwide. New Horizons offers classroom, e-learning and Mentored Training options for virtually every desktop application used in the world of business. They feature the latest titles and provide solutions tailored to help you execute real-world business projects.

A wide selection of technical classes and certification packages such as Microsoft, Cisco, Citrix, Novell and others are available. New Horizons provides more Microsoft technical and certification training than any other company.

MEDICAL TRANSCRIPTION PROGRAM

This non-academic credit medical transcription training program is 100% completed in a web-based delivery format on-line. This on-line program was designed by transcriptionists, editors, trainers, and service owners/managers to tailor transcriptionists specifically to the needs of employers. The program, designed primarily as a self-paced on-line learning structure, is directed and guided by a qualified C&TC faculty member. The student can take up to one year to complete the training courses with 500 to 800 hours of time spent on-line completing the course. The historical averages for completion of the program is 640 hours in nine months. The curriculum contains exercises and tests in grammar, typing, and all areas of terminology – including anatomy and physiology, medical word building, abbreviations, Latin plurals, medical specialties and more. The training also contains an extensive audio library with more than 700 actual medical dictations for student practice. For individuals ready for the challenges of self-paced, on-line learning, this program is one of the most affordable and practical training options available online in medical transcription and can have students ready for gainful employment within four to nine months.

NATIONAL HARDWOOD LUMBER GRADING SCHOOL

The National Hardwood Lumber Grading School located in Elkins, WV is a 14-week (35 Hrs per week) program and curriculum that provides students with both the technical knowledge of the Nation Hardwood Lumber Association (NHLA) grading rules, and the practical skills and experience necessary to become a lumber inspector. The instructor is NHLA certified, and a skilled inspector with many years of experience in the hardwood lumber industry. Upon successful completion of the program, students receive an NHLA diploma in a formal graduation ceremony. Inspection School graduates are qualified for immediate employment as lumber inspectors.

The NHLA is a nonprofit trade association of over 1,800 member firms that produce, sell and use hardwood lumber, or provide services to the hardwood industry. The Association was founded in 1898 to establish a uniform system of grading rules for the measurement and inspection of hardwood lumber. The NHLA still functions as the administrator and keeper of these rules.

In 1948, the Association established a vocational training school in Memphis, Tennessee, to teach the rules and application of the NHLA grading system, and help fill an increasing demand for skilled lumber inspectors throughout the United States, Canada and the world. In 55 years, the Inspection School has trained over 6,500 lumber inspectors.

In 2002, the NHLA recognized the need to locate an additional training site in the Eastern US hardwood region. As a result of this initiative, a partnership agreement was forged between Pierpont Community & Technical College and the West Virginia Wood Technology Center to establish an NHLA Satellite School in Elkins, WV. This will assist companies in the central Appalachian forest to meet the growing need for trained lumber inspectors.

Programs of Study
Fairmont State University

College of Liberal Arts

■ Martin L. Bond, Dean
110a Hardway Hall / (304) 367-4162 or -4251
mbond@fairmontstate.edu

Department of Language and Literature

■ Dr. Rhonda Lemke Sanford, Chair
309 Jaynes Hall / (304) 367-4717
FAX: (304) 367-4896
rsanford@fairmontstate.edu

FACULTY

BAKER, J. ROBERT (1994)
Director, Honors Program
Professor of English

BYERS, JUDY P. (1982)
Director, West Virginia Folklife Center
Abelina Suarez Senior Professor of English

BOND, MARTIN L. (1992)
Dean, College of Liberal Arts
Professor of English
Graduate Faculty

DELGADO, GILBERTO (2002)
Assistant Professor of Spanish

GEORGE, LELAND M. (1984)
Professor of English

HOKOM, MATTHEW L. (2001)
Assistant Professor of English

IVES, VALERIE C. (2002)
Assistant Professor of French

KELLEY, SUSAN M. (1991)
Professor of English

LONG, DONNA J. (1999)
Associate Professor of English
Graduate Faculty

MATTHEWS, JAMES (2002)
Assistant Professor of English

NESTOR, DEBORAH (1997)
Associate Professor of English

ROMINO, SHARON L. (1987)
Professor of English
Graduate Faculty

SANFORD, RHONDA LEMKE (1999)
Associate Professor of English
Graduate Faculty

SAVAGE, ELIZABETH A. (2001)
Associate Professor of English

SCHWER, MARY ANGELA (1997)
Associate Professor of English

STEWART, MARY D. (1998)
Temporary Instructor of English/Kestrel Coordinator

ENGLISH

The English Program provides basic instruction in English language and literature as part of the University's Liberal Studies Requirements. Within the study of English are composition, literature and creative and technical writing courses. In addition, the Program offers a Bachelor of Arts degree and a teaching specialization in English education. Two minors are also available, one in business and technical writing and one in literature. Students in any program may select from a variety of courses to enhance their knowledge of English.

A degree in English Literature (B.A.) opens up an exciting array of professions or graduate and professional studies for students who enjoy the critical study of literature; those who want a career in teaching pursue a major in English Education (B.A. Education); and those who wish to pursue a career in writing may wish to minor in technical writing. Students with English degrees might choose to explore careers in journalism, magazine publishing, public affairs and marketing, or book editing, to name only a few possibilities.

By reviewing high school records and performances on the ACT, the Registrar will determine eligibility for advanced standing and credit in English. To qualify, a student must have semester grades of no lower than B in each of the four units of high school English, and a score of 25 or higher on the English section of the Enhanced ACT or 470 on the English section of the SAT.

BACHELOR OF ARTS IN ENGLISH ..... **128 sem. hrs.**
English Curriculum *(see below)* ..... **42 sem. hrs.**
Liberal Studies Requirements ..... **56 sem. hrs.**
Free Electives ..... **30 sem. hrs.**

• **English Curriculum** ..... **42 sem. hrs.**
Required courses (18 hrs.)

ENGL	3303	Survey of American Literature I	3
ENGL	3304	Survey of American Literature II	3
ENGL	3313	Survey of British Literature I	3
ENGL	3314	Survey of British Literature II	3
ENGL	3320	Literary Criticism	3
ENGL	3374	Shakespeare	3

English Electives (18 hrs.)
(Select one from each one of the following groups.)

Group A:

ENGL	3330	Semantics and Pragmatics	3
ENGL	3331	Study of the English Language	3

Group B:

ENGL	3332	Narrative/Descriptive Writing	3
ENGL	3333	Writing Non-Fiction	3
ENGL	3344	Writing Poetry	3
ENGL	3345	Writing Fiction	3

Group C:

ENGL	3361	Major American Writers 1820-1870	3
ENGL	3362	Major American Writers 1870-1940	3
ENGL	3363	American Novel	3

Group D:

ENGL	3370	Literature of the Middle Ages	3
ENGL	3373	Chaucer	3
ENGL	3375	17th-Century British Literature	3
ENGL	3377	18th-Century British Literature	3

Group E:

ENGL	3378	Literature of the Romantic Period	3
ENGL	3379	Literature of the Victorian Period	3
ENGL	3380	Twentieth Century British Literature	3
ENGL	3381	The British Novel	3

Group F:

ENGL	3390	Modern Drama	3
ENGL	3391	The Short Story	3
ENGL	3392	Contemporary Poetry	3

Additional English Electives (6 hrs.)
(Select two courses from the following options.)

Writing Option:
Select two more writing courses from Group B, OR

Literature Option:
Select two courses from the following list or one course from this list and one course from Groups C to F above.

ENGL	3382	World Novel	3
ENGL	3385	The Arthurian Tradition	3
ENGL	3386	The Bible as Literature	3
ENGL	3387	Folk Literature	3
ENGL	3388	Women's Literature	3
ENGL	3389	Minority Literature	3
ENGL	3393	Southern Literature	3
ENGL	3394	The Art of the Motion Picture	3
ENGL	3395	Journeys in Comparative Mythology	3
ENGL	3399	Special Topics in English	3

MINOR IN ENGLISH ..... **21 sem. hrs.**
Required courses (9 hrs.)

ENGL	3374	Shakespeare	3
ENGL	3303	Survey of American Literature I	3
- or -			
ENGL	3304	Survey of American Literature II	3
ENGL	3313	Survey of British Literature I	3
- or -			
ENGL	3314	Survey of British Literature II	3

English Electives (15 hrs.)
(Select one course from each of the following groups (A-E).)

Group A:

ENGL	3330	Semantics and Pragmatics	3
ENGL	3331	Study of the English Language	3
ENGL	3332	Narrative and Descriptive Writing	3
ENGL	3333	Writing Non-Fiction	3
ENGL	3344	Writing Poetry	3
ENGL	3345	Writing Fiction	3

Group B:

ENGL	3303	Survey of American Literature I	3
- or -			
ENGL	3304	Survey of American Literature II	3
ENGL	3361	Major American Writers, 1820-1870	3
ENGL	3362	Major American Writers, 1870-1940	3
ENGL	3363	American Novel	3

Group C:

ENGL	3313	Survey of British Literature I	3
-or-			
ENGL	3314	Survey of British Literature II	3
ENGL	3370	Literature of the Middle Ages	3
ENGL	3373	Chaucer	3
ENGL	3375	17th-Century British Literature	3
ENGL	3377	18th-Century British Literature	3
ENGL	3378	Literature of the Romantic Period	3
ENGL	3379	Literature of the Victorian Period	3
ENGL	3380	Twentieth Century British Literature	3
ENGL	3381	The British Novel	3
ENGL	3382	The World Novel	3

Group D:

ENGL	3320	Literary Criticism	3
ENGL	3382	World Novel	3
ENGL	3385	The Arthurian Tradition	3
ENGL	3386	The Bible as Literature	3
ENGL	3387	Folk Literature	3
ENGL	3388	Women's Literature	3
ENGL	3389	Minority Literature	3
ENGL	3390	Modern Drama	3
ENGL	3391	The Short Story	3
ENGL	3392	Contemporary Poetry	3
ENGL	3393	Southern Literature	3
ENGL	3394	The Art of the Motion Picture	3
ENGL	3395	Journeys in Comparative Mythology	3
ENGL	3399	Special Topics in English	3

Group E:

ENGL	3332	Narrative and Descriptive Writing	3
ENGL	3333	Writing Non-Fiction	3
ENGL	3344	Writing Poetry	3
ENGL	3345	Writing Fiction	3

MINOR IN BUSINESS AND TECHNICAL WRITING ..... 18 sem. hrs.

Required Courses (18 hrs.)

ENGL	1109	Technical Report Writing	3
ENGL	3330	Semantics and Pragmatics	3
ENGL	3333	Writing Non-Fiction	3
ENGL	3349	Advanced Technical Communication	3
JOUR	2240	Reporting I (including lab)	3
JOUR	3312	The Publication Process	3

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
INFO	1100	Comp. Concepts and Appls	3
	1101	Foreign Language	3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
Liberal Studies - Society/Human Interaction elective			3
			15

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
ENGL	2220	World Literature I	3
	1102	Foreign Language	3
Liberal Studies - College-level Math elective			3
SPCH	1100	Intro. to Speech Communication	3
			15

SOPHOMORE FIRST SEMESTER

ENGL	2221	World Literature II	3
ENGL	3303	Americn Literature I	3
	2201	Foreign Language	3
Liberal Studies - Society/Human Interaction elective			3
Minor elective			3
			15

SOPHOMORE SECOND SEMESTER

ENGL	3304	American Literature II	3
ENGL	3313	British Literature II	3
	2202	Foreign Language	3
Minor elective			3
Liberal Studies - Scientific Discovery elective			4
			16

JUNIOR FIRST SEMESTER

ENGL	3313	British Literature I	3
ENGL	3---	Group A-F Elective	3
ENGL	3---	Group A-F Elective	3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
Liberal Studies - Scientific Discovery elective			4
			16

JUNIOR SECOND SEMESTER

ENGL	3320	Literary Criticism	3
ENGL	3---	Group A-F Elective	3
Liberal Studies - Culture/Civilization Exploration elective			3
Minor elective			3
Minor elective			3
Minor elective			3
			18

SENIOR FIRST SEMESTER

ENGL	3---	Group A-F Elective	3
ENGL	3---	Group A-F Elective	3
ENGL	3---	Lit. or Writing Option	3
Minor elective			3
Minor elective			3
Minor elective			3
			18

SENIOR SECOND SEMESTER

ENGL	3374	Shakespeare	3
ENGL	3---	Lit. or Writing Option	3
ENGL	3---	Lit or Writing Option	3
Minor elective			3
Minor elective			3
			15

BACHELOR OF ARTS IN EDUCATION: TEACHING SPECIALIZATION IN ENGLISH GRADES 5-ADULT ..... 128 sem. hrs.

English Curriculum *(see below)* ..... 45 sem. hrs.
Liberal Studies Requirements ..... 45 sem. hrs.
Professional Education Courses ..... 33 sem. hrs.
Free Electives ..... 5 sem. hrs.

Note regarding Liberal Studies Requirements for this degree: If a student has taken either ENGL 2230 or 2231 (but not both), s/he must take both ENGL 2220 and 2221. If a student has taken both ENGL 2230 and 2231, s/he must also take ENGL 2220.

- **English Curriculum ..... 45 sem. hrs.**

Required Courses (33 hrs.)

ENGL	3301	Theories of Language I	3
ENGL	3302	Theories of Language II	3
ENGL	3303	Survey of American Literature I	3
ENGL	3304	Survey of American Literature II	3
ENGL	3313	Survey of British Literature I	3
ENGL	3314	Survey of British Literature II	3
ENGL	3332	Narrative and Descriptive Writing	3
ENGL	3355	Young Adult Literature	3
ENGL	3374	Shakespeare	3
ENGL	4431	Methods of Teaching English	3
JOUR	3312	The Publication Process	3

English Electives (12 hrs.)
(Select one from each of the following groups.)

British Literature

ENGL	3370	Literature of the Middle Ages	3
ENGL	3373	Chaucer	3
ENGL	3375	17th-Century British Literature	3
ENGL	3377	18th-Century British Literature	3
ENGL	3378	Romantic Literature	3
ENGL	3379	Victorian Literature	3
ENGL	3380	Twentieth Century British Literature	3
ENGL	3381	British Novel	3

American Literature

ENGL	3361	Major American Writers 1820-1870	3
ENGL	3362	Major American Writers 1870-1920	3
ENGL	3363	American Novel	3
ENGL	3393	Southern Literature	3

Study of Genre

ENGL	3390	Modern Drama	3
ENGL	3391	Short Story	3
ENGL	3392	Contemporary Poetry	3
ENGL	3382	World Novel	3

Specialized Studies

ENGL	3385	The Arthurian Tradition	3
ENGL	3386	Bible As Literature	3
ENGL	3387	Folk Literature	3

ENGL	3388	Women's Literature	3
ENGL	3389	Minority Literature	3
ENGL	3394	Art of the Motion Picture	3
ENGL	3395	Journeys in Comparative Mythology	3
ENGL	3399	Special Topics	3

• Professional Education ..... 33 sem. hrs.

EDUC	2200	Intro. to Education	3
EDUC	2201	Instructional Technology	3
EDUC	2202	Human Growth and Development	3
EDUC	2202L	Laboratory - Clinical I	1
EDUC	3331	Reading in the Content Areas	3
EDUC	3351	Human Exceptionalities and Cultural Diversity	3
EDUC	3351L	Laboratory - Clinical II	1
EDUC	3352	Educational Psychology	3
EDUC	3352L	Laboratory - Clinical II	1
EDUC	3395	Secondary Classroom Org. & Practices	4
EDUC	4495	Secondary Student Teaching/Clinical III	8

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
INFO	1100	Comp. Concepts and Appls	3
2nd field req			3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
Liberal Studies - Society/Human Interaction elective			3
			15

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
ENGL	2220	World Literature I	3
SPCH	1100	Intro. to Speech Comm.	3
EDUC	2200	Intro. to Education	3
2nd field req			3
Liberal Studies - College-level Math elective			3
			18

SOPHOMORE FIRST SEMESTER

ENGL	2221	World Literature II	3
ENGL	3313	British Literature I	3
ENGL	3330	Study of English Lang. I	3
ENGL	2201	Instructional Technology	3
2nd field req			3
Liberal Studies - Society/Human Interaction elective			3
Liberal Studies - Culture/Civilization Exploration elective			3
			21

SOPHOMORE SECOND SEMESTER

ENGL	3304	American Literature II	3
ENGL	3314	British Literature II	3
ENGL	3331	Study of English Lang. II	3
EDUC	2202	Instructional Technology	3
EDUC	2201L	Lab: Clinical I	1
EDUC	3331	Reading in Content Areas	3
2nd field req			3
Liberal Studies - Scientific Discovery elective			3
			23

JUNIOR FIRST SEMESTER

ENGL	3303	American Literature I	3
ENGL	3332	Narrative & Descriptive Writing	3
ENGL	3---	Group A-D Elective	3
JOUR	3312	Publications Process	3
2nd field req			3
Liberal Studies - Scientific Discovery elective			4
			19

JUNIOR SECOND SEMESTER

ENGL	3374	Shakespeare	3
ENGL	3---	Group A-D Elective	3
ENGL	3---	Group A-D Elective	3
EDUC	3351	Human Excep & Cult. Div.	3
EDUC	3351L	Lab: Clinical II	1
EDUC	3352	Educational Psychology	3
EDUC	3351L	Lab: Clinical II	1
2nd field req			3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
			23

SENIOR FIRST SEMESTER

ENGL	3355	Young Adult Literature	3
ENGL	3---	Group A-D Elective	3
ENGL	4431	English Methods	3
ENGL	3395	Second Class Org/Prac.	3
2nd field req			3
			18

SENIOR SECOND SEMESTER

EDUC	4490	Student Teacher (Block)	8
			8

FOLKLORE STUDIES (MINOR ONLY)

Students interested in the study of folklore and folklife learn to examine and analyze traditional expressive culture in all its forms. In every society, agricultural and industrial, rural and urban, folklore is a vital part of life. Since folklore study deals with so many forms of human expression which are typically transmitted by tradition, it is connected to all departments that deal with literature, art, and music, as well as anthropology, psychology, sociology, history, philosophy, linguistics, design and pedagogy.

A folklore studies specialization prepares the student for graduate studies and professional involvement in such areas as preservation, archiving, teaching, curating, historical parks and museum management, entertainment and storytelling.

This 19-hour interdisciplinary academic minor, which can be attached to most liberal arts majors, is one of the features of the West Virginia Folklife Center at FSU. Under the Department of Language and Literature, the Center is dedicated to the identification, preservation and perpetuation of our region's rich cultural heritage through academic studies, educational programs, festivals, performances and publications, such as *Traditions: A Journal of West Virginia Folk Culture and Educational Awareness* and *Hillchild: A Folklore Chapbook about, for, and by West Virginia Children.*

• Minor in Folklore Studies ..... 19 sem. hrs.

FOLK	2200	Introduction to Folklore	3
FOLK	2200L	Field Research/Oral History Techniques	1
FOLK	3300	Folk Literature	3
FOLK	3301	Material Culture	3
FOLK	3302	Regional Cultural Geography & History	3
FOLK	4400*	Directed Folklore Study	3-6
FOLK	4401	Folklore Application	3

** Only 3 hours are required, but students may wish to intensify their study with the additional hours offered:*

- Appalachian African-American Lore
- Appalachian (Regional/Written) Literature and Film
- Archives/Collections Management
- Arthurian Legend: Comparative Folk Literature Study

- Children's Folklore
- Culture as Education
- Ethnography and Process and Storytelling
- Folk Arts
- Folk Dance
- Museum Studies
- Rural Education
- Traditional Folk Music, Vocal and Instrumental
- Urban and Popular Culture
- Vintage Clothing Preservation
- West Virginia Literature
- World Tale

FRENCH

French is the language of diplomacy. It is the official language of the European Union, the second language of the United Nations, and is spoken in 40 countries. Students taking French courses enroll in a program aimed at developing skills in reading, speaking, listening and writing the language. There is also instruction in French civilization, culture, and literature, all aimed at an understanding of the Francophone world. Students preparing to teach French and those preparing for careers in international relations and business have available a series of courses in conversation and composition to establish these advanced skills.

The Program is designed to engage students in developing and perfecting their language skills through a broad scope of activities. Coursework offers maximum interaction among students and between students and instructors, beginning with the first lesson. Comprehensive skills are enhanced with the use of audio tapes and compact discs, which allow students to sharpen their listening skills while working on their pronunciation. A variety of supporting materials, including French magazines, newspapers, literary pieces, and videos, contextualizes study and develops students' cultural awareness.

Advanced Placement allows French majors and minors with previous experience in the target language to accelerate their program. A placement exam will determine at what level the student may begin.

BACHELOR OF ARTS IN FRENCH ..... 128 sem. hrs.
French Curriculum *(see below)* **..... 30 sem. hrs.**
Liberal Studies Requirements ..... 56 sem. hrs.
Free Electives ..... 42 sem. hrs.

BACHELOR OF ARTS IN EDUCATION: TEACHING SPECIALIZATION IN FRENCH GRADES 5-ADULT ..... 128 sem. hrs.
French Curriculum *(see below)* **..... 33 sem. hrs.**
Liberal Studies Requirements ..... 45 sem. hrs.
Professional Education Courses ..... 33 sem. hrs.
Free Electives ..... 17 sem. hrs.

- **French Curriculum ..... 30/33 sem. hrs.**
  Required courses (30/33 hrs.)

FREN	1101	Elementary French I	3
FREN	1102	Elementary French II	3
FREN	2201	Intermediate French I	3
FREN	2202	Intermediate French II	3
FREN	3311	French Composition & Conversation I	3
FREN	3312	French Composition & Conversation II	3
FREN	3314	French Civilization and Culture	3
FREN	3321	Contemporary Literature	3
FREN	4411	Adv. French Composition and Conversation	3
FREN	4426	Main Currents of French Lit. and Culture	3
FREN	4431	Methods and Materials in Teaching French *(Required for the B.A. in Education)*	3

- **Professional Education ..... 33 sem. hrs.**
  (Required for the B.A. in Education)

EDUC	2200	Intro. to Education	3
EDUC	2201	Instructional Technology	3
EDUC	2202	Human Growth and Development	3
EDUC	2202L	Laboratory - Clinical I	1
EDUC	3331	Reading in the Content Areas	3
EDUC	3351	Human Exceptionalities & Cultural Diversity	3
EDUC	3351L	Laboratory - Clinical II	1
EDUC	3352	Educational Psychology	3
EDUC	3352L	Laboratory - Clinical II	1
EDUC	3395	Secondary Classroom Org. & Practices	4
EDUC	4495	Secondary Student Teaching/Clinical III	8

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

FREN	1101	Elementary French I	3
INFO	1100	Comp. Concepts & Appls	3
ENGL	1104	Written English	3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
Liberal Studies - Society/Human Interaction elective			3
			15

FRESHMAN SECOND SEMESTER

FREN	1102	Elementary French II	3
ENGL	2220	World Literature I	3
ENGL	1108	Written English II	3
Liberal Studies - College-level Math elective			3
SPCH	1100	Intro. to Speech Comm.	3
Minor/elective			3
			18

SOPHOMORE FIRST SEMESTER

FREN	2201	Intermediate French I	3
Minor/elective			3
Minor/elective			3
Liberal Studies - Scientific Discovery elective			4
Liberal Studies - Society/Human Interaction elective			3
			16

SOPHOMORE SECOND SEMESTER

FREN	2202	Intermediate French II	3
Minor/elective			3
Minor/elective			3
Minor/elective			3
Liberal Studies - Scientific Discovery elective			3
			16

JUNIOR FIRST SEMESTER

FREN	3311	French Composition I	3
Minor/elective			3
Minor/elective			3
Minor/elective			3
Minor/elective			3
			15

JUNIOR SECOND SEMESTER

FREN	3312	French composition II	3
Minor/elective			3
Minor/elective			3
Minor/elective			3

Minor/elective			3
Minor/elective			3
			18

SENIOR FIRST SEMESTER

FREN	3314	French Civilization	3
FREN	3321	Contemporary Literature	3
Minor/elective			3
Minor/elective			3
Minor/elective			3
			15

SENIOR SECOND SEMESTER

FREN	4411	Advanced French Comp.	3
FREN	4426	Main Currents of Fr. Lit.	3
Minor/elective			3
Minor/elective			3
Minor/elective			3
			15

MINOR IN FRENCH ..... 24 sem. hrs.

Required Courses (15 hrs.)

FREN	1101	Elementary French I	3
FREN	1102	Elementary French II	3
FREN	2201	Intermediate French I	3
FREN	2202	Intermediate French II	3
FREN	3311	French Composition & Conversation I	3
-or-			
FREN	3312	French Composition & Conversation II	3

Electives (9 hrs.)

Select from any of the remaining courses listed under the French major.

JOURNALISM

The Journalism curriculum provides students with a varied academic program and many choices for practical media experience. Students may select from the following Journalism programs:

I. *Journalism as a minor,* compatible with any four-year major in either the B.A or B.S. degrees. This option provides non-teaching students with two choices:

1.) the 18-hour minor, applicable to any bachelor's degree or as preparation for students planning to transfer to professional journalism schools;
2.) the 18-hour Technical Writing program, applicable also to any bachelor's degree, for those who want greater focus on writing and more preparation for the variety of commercial and industrial writing and editing careers available to them.

II. *Journalism as part of the Regents' degree,* with a combination of coursework and practical experience dependent upon individual programs and on administrative approval.

These programs provide additional expertise in journalism through staff work on the award-winning student publications—The Columns, the University's weekly newspaper; Mound, the yearbook; and Whetstone, the student art and literary journal. Students also develop professional skills through the required capstone experience (an internship with an off-campus media-related organization), in which students work under the supervision of a professional journalist.

Students in the Journalism Program should consult the Program Coordinator either before enrolling or before the end of their first semester to determine an appropriate schedule and sequence of courses. All students in good standing are eligible to apply for staff work on student publications; to explore this option, students should consult the Student Publications Advisor and the appropriate editor.

Journalism courses are open as electives to students in any field. Specific courses are required, however, of students in Graphics/Fine Arts (Journalism 2240 and 3312) and in English Education (Journalism 3312). Students in these programs should check with the Program Coordinator about course sequence and prerequisites, listed with course descriptions in this catalog.

Because prospective teachers need to be aware of the impact of mass communications today, students in teacher education programs are encouraged to take one or more of the introductory courses, such as Reporting I, Communications and Society, or the History of American Journalism.

The Journalism Program has seven defined learning outcomes for its students, who should be able to:

1.) Relate the development of American journalism from its origins to its current effect on society.
2.) Articulate their understanding of the basic production methods of many media, including print, broadcast and computerized media.
3.) Study the legal and ethical aspects of publication, including libel laws, the Constitution, and precedents of the US legal system.
4.) Learn basic reporting styles and practice those skills in the style prescribed by the current edition of the Associated Press Handbook.
5.) Demonstrate the basics of two of the most common publication software programs, PageMaker and QuarkXPress.
6.) Practice their skills as staff members of one of the recognized FSU student publications.
7.) Gain real-world journalistic experience by completing an internship at an approved site.

BACHELOR OF ARTS IN EDUCATION: TEACHING SPECIALIZATION IN JOURNALISM GRADES 5-ADULT ..... 128 sem. hrs.

Journalism Curriculum *(see below)*	**24 sem. hrs.**
Liberal Studies Requirements	**45 sem. hrs.**
Professional Education Courses	**33 sem. hrs.**
Free Electives	**26 sem. hrs.**

• Journalism Curriculum ..... 24 sem. hrs.

Required courses (24 hrs.)

JOUR	2240	Reporting I (and L2240)	3
JOUR	2270	Communications in Society	3
JOUR	2280	History of American Journalism	3
JOUR	3312	The Publications Process	3
JOUR	3334	News Photography	3
JOUR	3341	Journalism Practice	3
MKTG	3320	Advertising and Sales Promotion	3
ENGL	4431	Methods and Materials	3

• Professional Education ..... 33 sem. hrs.

EDUC	2200	Intro. to Education	3
EDUC	2201	Instructional Technology	3
EDUC	2202	Human Growth and Development	3
EDUC	2202L	Laboratory - Clinical I	1
EDUC	3331	Reading in the Content Areas	3
EDUC	3351	Human Exceptionalities & Cul. Diversity	3

EDUC	3351L	Laboratory - Clinical II	1
EDUC	3352	Educational Psychology	3
EDUC	3352L	Laboratory - Clinical II	1
EDUC	3395	Secondary Classroom Org. and Practices	4
EDUC	4495	Secondary Student Teaching/Clinical III	8

• Pre-Journalism or Journalism Minor ..... 18 sem. hrs.
Required courses (18 hrs.)

JOUR	2240	Reporting I (and L240)	3
JOUR	2270	Communications in Society	3
JOUR	2280	History of American Journalism	3
JOUR	3312	The Publications Process	3
JOUR	3334	News Photography	3
JOUR	3341	Journalism Practice	3

JOURNALISM MINOR:
TECHNICAL WRITING OPTION ..... 18 sem. hrs.
Required courses (15 hrs.)

ENGL	1109	Technical Report Writing	3
ENGL	3330	Semantics and Pragmatics	3
JOUR	2240	Reporting I (and L240)	3
JOUR	3312	The Publications Process	3
JOUR	3341	Journalism Practice	3

Electives (3 hrs.)
(Select one of the two courses below.)

ENGL	3333	Writing Non-Fiction	3
ENGL	3349	Advanced Technical Communications	3

(In addition, the following electives are suggested but not required)

ENGL	3333	Writing Non-Fiction	3
ENGL	3349	Advanced Technical Communications	3
JOUR	3334	News Photography	3

SPANISH

As Spanish is now the second most-spoken language in the U.S., employment opportunities are significantly strengthened for majors. In education, there is widespread need for Spanish teachers at all levels. In many settings, Spanish proficiency has become essential for placement in such professions as social work, criminal justice, business and banking, and allied health areas. Spanish courses at Fairmont State University are designed to develop students' skills in speaking, comprehension, reading, and writing the language. They will also gain an understanding of Hispanic culture both outside and inside the United States. Students preparing to teach Spanish and those wishing to integrate Spanish into their chosen professions will be able to choose from a variety of courses aimed at helping them reach their career goals.

Spanish majors are strongly encouraged to spend at least one semester abroad in a Spanish-speaking country, preferably but not necessarily in their junior year. Students have the option of traveling to a Spanish-speaking country and doing research on an approved topic, for which they will receive 3 credit hours (SPAN 4402). Students in approved internships (SPAN 3300) will receive 3-6 upper-division credit hours, depending upon the type and duration of the internship.

Advanced Placement allows Spanish majors and minors with previous experience in the target language to accelerate their program. A placement exam will determine at what level the student may begin.

BACHELOR OF ARTS IN SPANISH ..... 128 sem. hrs.
Spanish Curriculum *(see below)* **..... 36 sem. hrs.**
Liberal Studies Requirements ..... 56 sem. hrs.
Free Electives ..... 36 sem. hrs.

• Spanish Curriculum ..... 36 sem. hrs.
Required courses (27 hrs.)

SPAN	1101	Elementary Spanish I	3
SPAN	1102	Elementary Spanish II	3
SPAN	2201	Intermediate Spanish I	3
SPAN	2202	Intermediate Spanish II	3
SPAN	3301	Spanish Composition & Conversation I	3
SPAN	3302	Spanish Composition & Conversation II	3
SPAN	4400	Survey of Latin American Literature	3
SPAN	4401	Survey of Peninsular Literature	3
SPAN	3310	Spanish Civilization & Culture	3
- or -			
SPAN	3320	Latin American Civilization & Culture	3

Spanish Electives (9 hrs.)
(Students may select from the following list or choose other courses approved by their advisor)

SPAN	1199	Special Topics	3
SPAN	2200	Language Through Video	3
SPAN	2250	Spanish for the Medical Professions	3
SPAN	2251	Spanish for Criminal Justice	3
SPAN	2252	Spanish for the World Economy	3
SPAN	3300	Undergraduate Internship	3-6
SPAN	3350	History of the Spanish Language	3
SPAN	4402	Independent Study	3-6
SPAN	4418	US Hispanic Cultures & Literature	3
SPAN	4431	Methods: Second Language Acquisition	3

BACHELOR OF ARTS IN EDUCATION:
TEACHING SPECIALIZATION IN SPANISH
GRADES PRE K-ADULT ..... 128 sem. hrs.
Spanish Curriculum *(see below)* **..... 36 sem. hrs.**
Liberal Studies Requirements ..... 45 sem. hrs.
Professional Education Courses ..... 33 sem. hrs.
Free Electives ..... 14 sem. hrs.

• Spanish Curriculum ..... 36 sem. hrs.
Required courses (33 hrs.)

SPAN	1101	Elementary Spanish I	3
SPAN	1102	Elementary Spanish II	3
SPAN	2201	Intermediate Spanish I	3
SPAN	2202	Intermediate Spanish II	3
SPAN	3301	Spanish Composition & Conversation I	3
SPAN	3302	Spanish Composition & Conversation II	3
SPAN	3350	History of the Spanish Language	3
SPAN	4400	Survey of Latin American Literature	3
SPAN	4401	Survey of Peninsular Literature	3
SPAN	4431	Methods: Second Language Acquisition	3
SPAN	3310	Spanish Civilization & Culture	3
- or -			
SPAN	3320	Latin American Civilization & Culture	3

Spanish Electives (3 hrs.)
(Students may select from the following list or choose other courses approved by their advisor.)

SPAN	1199	Special Topics	3
SPAN	2200	Language Through Video	3

SPAN	3300	Undergraduate Internship	3-6
SPAN	3310	Spanish Civilization and Culture	3
SPAN	3320	Latin American Civilization & Culture	3
SPAN	4402	Independent Study	3-6
SPAN	4418	US Hispanic Cultures & Literature	3

• Professional Education ..... 33 sem. hrs.

EDUC	2200	Intro. to Education	3
EDUC	2201	Instructional Technology	3
EDUC	2202	Human Growth and Development	3
EDUC	2202L	Laboratory - Clinical I	1
EDUC	3331	Reading in the Content Areas	3
EDUC	3351	Human Exceptionalities & Cultural Diversity	3
EDUC	3351L	Laboratory - Clinical II	1
EDUC	3352	Educational Psychology	3
EDUC	3352L	Laboratory - Clinical II	1
EDUC	3395	Secondary. Classroom Org. & Practices	4
EDUC	4495	Secondary Student Teaching/Clinical III	8

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

SPAN	1101	Elementary Spanish I	3
ENGL	1104	Written English I	3
INFO	1100	Comp. Concepts & Appls	3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
Liberal Studies - Society/Human Interaction elective			3
			15

FRESHMAN SECOND SEMESTER

SPAN	1102	Elementary Spanish II	3
ENGL	1108	Written English II	3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
Liberal Studies - College-level Math elective			3
SPCH	1100	Intro. to Speech Communication	3
Minor/Elective			3
			18

SOPHOMORE FIRST SEMESTER

SPAN	2201	Intermediate Spanish I	3
SPAN	1199	Special Topics	3
Liberal Studies Literature.			3
Liberal Studies - Society/Human Interaction elective			3
Liberal Studies - Scientific Discovery elective			4
Minor/Elective			3
			19

SOPHOMORE SECOND SEMESTER

SPAN	2202	Intermediate Spanish II	3
SPAN	1199	Special Topics	3
Liberal Studies Literature			3
Minor/Elective			3
Minor/Elective			3
Liberal Studies - Scientific Discovery elective			4
			19

JUNIOR FIRST SEMESTER

SPAN	3301	Spanish Comp. & Conv. I	3
SPAN	3310	Spanish Civ. & Culture	3
Minor/Elective			3
Minor/Elective			3
Minor/Elective			3
			15

JUNIOR SECOND SEMESTER

SPAN	3302	Spanish Comp. & Conv. II	3
SPAN	3320	Latin Amer. Civ. & Culture	3
Minor/Elective			3
Minor/Elective			3
Minor/Elective			3
			15

SENIOR FIRST SEMESTER

SPAN	3350	History of the Spanish Language	3
SPAN	4400	Survey of Latin American Literature	3
Minor/Elective			3
Minor/Elective			3
Minor/Elective			3
			15

SENIOR SECOND SEMESTER

SPAN	4401	Survey of Peninsular Literature	3
SPAN	4431	Methods: Span. Lang. Acq.	3
Minor/Elective			3
Minor/Elective			3
Minor/Elective			3
			15

MINOR IN SPANISH ..... 24 sem. hrs.
Required courses (24 hrs.)

SPAN	1101	Elementary Spanish I	3
SPAN	1102	Elementary Spanish II	3
SPAN	2201	Intermediate Spanish I	3
SPAN	2202	Intermediate Spanish II	3
SPAN	3301	Spanish Composition & Conversation I	3
SPAN	3302	Spanish Composition & Conversation II	3
SPAN	3310	Spanish Civilization and Culture	3
- or -			
SPAN	3320	Latin American Civilization & Culture	3
SPAN	4400	Survey of Latin American Literature	3
- or -			
SPAN	4401	Survey of Peninsular Literature	3

Department of Social Science

■ Dr. Deanna Shields, Chair
110B Hardway Hall / (304) 367-4775
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dshields@fairmontstate.edu

FACULTY

BARTOLO, ANN D. (2001)
Temporary Instructor of Criminal Justice

BOBANGO, GERALD J. (2004)
Assistant Professor of History

HOBBS, THOMAS W. (2002)
Assistant Professor of History

MILLEN-PENN, KENNETH (1995)
Professor of History

NOONE, DIANA C. (2004)
Assistant Professor of Criminal Justice
Graduate Faculty

RYAN, PATRICIA P. (1966)
Professor of Political Science
Graduate Faculty

SHIELDS, CHARLES (1996)
Associate Professor of Criminal Justice
Graduate Faculty

SHIELDS, DEANNA (1982)
Professor of Criminal Justice
Graduate Faculty

SPROWLS, GEORGE F. (1998)
Associate Professor of Political Science

CRIMINAL JUSTICE

Criminal Justice examines the structure, functions, and decision-making processes of agencies that deal with crime and criminal offenders. As an independent academic discipline, criminal justice is comparatively new. Interest in criminal justice education was spurred by the "war on crime" during the 1960s and the resulting massive federal funding to upgrade criminal justice agencies, technology, programming and education of criminal justice personnel.

Faculty in this program provide expertise in law enforcement, investigations, corrections, criminal law and theory. The Bachelor of Science in Criminal Justice allows the student to choose an area of concentration, either law enforcement or corrections. Majors are assigned a faculty advisor who will assist in selection of courses relevant to individual interests and career aspirations.

Students with a B.S. degree in criminal justice qualify for employment in city, county, state and federal criminal justice agencies, and in the rapidly-growing private industrial security field. A number of graduates continue their education in graduate programs in criminal justice, criminology or law. The program also offers a new Master of Science in Criminal Justice degree.

BACHELOR OF SCIENCE IN CRIMINAL JUSTICE ..... 128 sem. hrs.
Criminal Justice Courses *(see below)* ..... **39 sem. hrs.**
Human Behavior & Social Environment ..... **21 sem. hrs.**
Liberal Studies Requirements ..... **44 sem. hrs.**
Minor ..... **18 sem. hrs.**
Free Electives ..... **6 sem. hrs.**

• Criminal Justice Required Courses ..... 24 sem. hrs

CRJU	1100	Introduction to Criminal Justice	3
CRJU	1101	Police Operations	3
CRJU	2202	Principles of Criminal Law	3
CRJU	2206	Introduction to Corrections	3
CRJU	2212	Abnormal Behavior & Crisis Intervention	3
CRJU	2240	Adjudication Process	3
CRJU	3320	Criminology	3
CRJU	4410	Research in Criminal Justice	3
- or -			
CRJU	4425	Evaluation of Criminal Justice System	3

• Concentrations ..... 15 sem. hrs.
Choose either Law Enforcement or Corrections.

Law Enforcement
(Must include a minimum of 12 hours of 3300-4400 level courses.)

CRJU	1199	Special Topics	1-6
CRJU	2203	Computer Crime	3
CRJU	2205	Natural Resources Laws	3
CRJU	2209	Firearms	3
CRJU	2215	Introduction to Private Security	3
CRJU	2218	Police Administration	3
CRJU	2220	Juvenile Justice Process	3
CRJU	2236	Criminal Investigation	3
CRJU	2246	Criminal Evidence	3
CRJU	2256	Homicide Investigation	3
CRJU	3300	Criminalistics	3
CRJU	3301	Internet Vulnerabilities & Criminal Activity	3
CRJU	3304	The Female Offender	3
CRJU	3305	Changing Roles of Women in Criminal Justice	3
CRJU	3310	Comparative Criminal Justice	3
CRJU	3316	Community Relations and Ethics	3
CRJU	3325	Analysis of Security Operations	3
CRJU	3340	Laws of Arrest, Search and Seizure	3
CRJU	3365	Licit and Illicit Drugs	3
CRJU	3370	Economic Crime	3
CRJU	3399	Special Issues in Criminal Justice	3-9
CRJU	4401	Independent Study	1-6
CRJU	4405	Terrorism	3
CRJU	4411	Field Practicum	3-12
CRJU	4415	Community Policing	3
CRJU	4495	Seminars in Criminal Justice Management	3

Corrections
(Must include a minimum of 12 hours of 3300-4400 level courses.)

CRJU	1199	Special Topics	1-6
CRJU	2203	Computer Crime	3
CRJU	2209	Firearms	3
CRJU	2220	Juvenile Justice Process	3
CRJU	2236	Criminal Investigation	3
CRJU	2246	Criminal Evidence	3
CRJU	2255	Law of Corrections	3
CRJU	3300	Criminalistics	3
CRJU	3304	The Female Offender	3
CRJU	3305	Changing Roles of Women in Criminal Justice	3
CRJU	3310	Comparative Criminal Justice	3
CRJU	3316	Community Relations and Ethics	3
CRJU	3330	Group Disturbances	3
CRJU	3340	Laws of Arrest, Search and Seizure	3
CRJU	3350	Group Techniques	3
CRJU	3355	Analysis of Correctional Operations	3
CRJU	3360	Community Based Corrections	3
CRJU	3365	Licit and Illicit Drugs	3
CRJU	3370	Economic Crime	3
CRJU	3399	Special Issues in Criminal Justice	3-9
CRJU	4401	Independent Study	1-6
CRJU	4405	Terrorism	3
CRJU	4411	Field Practicum	3-12
CRJU	4495	Seminars in Criminal Justice Management	3

• Human Behavior & Social Environment ..... 21 sem. hrs.
Students must choose courses from at least three different disciplines.

GEOG	3315	Urban Geography	3
HIST	3319	Recent America	3
POLI	2204	Introduction to Public Administration	3
POLI	2205	State and Local Government	3
POLI	3303	Amer. Constitutional Government & Law	3
POLI	4404	Civil Liberties in the U.S.	3
POLI	4405	Terrorism	3
PSYC	2230	Social Psychology	3
PSYC	2250	Community Psychology	3
PSYC	3300	Abnormal Psychology	3

PSYC	4494	Interpersonal Dynamics	3
PSYC	4495	Psychology of Delinquency	3
SOCY	2200	Social Problems	3
SOCY	3310	Sociology of the Family	3
SOCY	3340	Juvenile Delinquency	3
SOCY	4450	Minority Groups	3

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
CRJU	1100	Intro. to Criminal Justice	3
SPCH	1100	Intro. to Speech Communication	3
Liberal Studies		Culture/Civilization Exploration elective	3
Liberal Studies		Artistic/Creative/Interdisciplinary elective	3
			15

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
CRJU	1101	Police Operations	3
CRJU	2206	Intro. to Corrections	3
Liberal Studies		Artistic/Creative/Interdisciplinary elective	3
Liberal Studies		Society/Human Interaction elective	3
			15

SOPHOMORE FIRST SEMESTER

ENGL	2220	World Lit I	3
or			
ENGL	2230	Intro. to Lit. I	3
INFO	1100	Comp. Concepts & Appls.	3
CRJU	2212	Abn. Beh. & Crisis Int	3
Liberal Studies		College-level Math elective	3
Liberal Studies		Scientific Discovery elective	4
			16

SOPHOMORE SECOND SEMESTER

ENGL	2221	World Lit. II	3
or			
ENGL	2231	Intro to Lit. II	3
CRJU	2240	Adjudication Process	3
CRJU	2202	Principles of Criminal Law I	3
Liberal Studies		Society/Human Interaction elective	3
Liberal Studies		Scientific Discovery elective	4
			16

JUNIOR FIRST SEMESTER

CRJU	3320	Criminology	3
H.B. & Soc Envir			3
H.B. & Soc Envir			3
Minor			3
Elective			3
			15

JUNIOR SECOND SEMESTER

CJ Concentration			3
CJ Concentration			3
H.B. & Soc Envir			3
H.B. & Soc Envir			3
Minor			3
Minor			3
			18

SENIOR FIRST SEMESTER

H.B. & Soc Envir			3
H.B. & Soc Envir			3
CJ Concentration			3
CRJU	4410	Research	3
or			
CRJU	4425	Evaluation of Criminal Justice	3
Minor			3
			15

SENIOR SECOND SEMESTER

H.B. & Soc Envir	3
CJ Concentration	3
CJ Concentration	3
Minor	3
Minor	3
General Elective	3
	18

MINOR IN CRIMINAL JUSTICE ..... 18 sem. hrs.

Required Courses (9 hrs.)

CRJU	1100	Introduction to Criminal Justice	3
CRJU	1101	Police Operations	3
CRJU	2206	Introduction to Corrections	3

Electives (9 hrs.)

Students must choose approved CRJU courses from the 3300-4400 level.

HISTORY

Every person, every place, every thing on earth has a history, a story of its past, that can help us understand human existence and human behavior. The History Program's major and minor draw upon a broad curriculum that encompasses regional, national and international history, as well as such special topics as the revolutions in history and diplomatic history. The History Program offers two types of majors. The Bachelor of Arts degree has the traditional emphasis on language skills, especially through study of a foreign language. It is a good choice for students thinking about postgraduate study. The Bachelor of Science degree develops basic capabilities in statistics and computer science. It is a good choice for students interested in the modern social science approach to historical understanding. The great advantages of historical study are:

1.) Emphasis on developmental and evolutionary aspects of human experience.
2.) Examination of many different fields of human activity.
3.) Use of insights and methods of many other fields.

Students completing a bachelor's degree in history may enter professional practice in academic history (teaching and writing), public history (archives and special research, consultancy) or publishing (print, electronic, film and television documentary). The history major also provides excellent preparation for careers in law, government, politics, foreign service, historical preservation and journalism.

BACHELOR OF ARTS IN HISTORY ..... 128 sem. hrs.
History Courses: ..... 45 sem. hrs.
Liberal Studies Requirements: ..... 56 sem. hrs.
Minor: ..... 18 sem. hrs.
Free Electives: ..... 6 hrs.
Additional Requirement: ..... 3 hrs.

• Required History Courses: ..... 18 hrs.

HIST	1107	United States History I	3
HIST	1108	United States History II	3
HIST	2211	World Civilizations I	3
HIST	2212	World Civilizations II	3
HIST	2213	World Civilizations III	3
HIST	4498	Senior Seminar	3

• Advanced History Electives ..... 27 hrs.

Selected with advisor's approval and must include at least three courses from each of the two groups listed below. Advanced electives may be taken only when prerequisites are met or with the instructor's permission.

Group I. United States History

HIST	3302	West Virginia History	3
HIST	3310	Diplomatic History of the United States	3
HIST	3315	Colonial America	3
HIST	3316	The Early Republic	3
HIST	3317	Civil War and Reconstruction	3
HIST	3318	Gilded Age to the Great Crash	3
HIST	3319	Recent America	3
HIST	3333	Social History of the American Woman	3
HIST	3344	African-American History and Culture	3
HIST	4499	Selected Topics	3

Group II. World History and Topical Studies

HIST	3351	History of England	3
HIST	3352	History of Russia	3
HIST	4405	History of Africa	3
HIST	4410	History of Asia	3
HIST	4420	History of Latin America	3
HIST	4425	Medieval Europe	3
HIST	4431	Recent Europe	3
HIST	4455	Revolutions in History	3
HIST	4475	Philosophy of History	3
HIST	4499	Selected Topics	3

• Additional Requirement 3

ENGL	3322	Narrative & Descriptive Writing	2
- or -			
ENGL	3333	Writing Non-Fiction	2

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
SPCH	1100	Intro. to Speech Communication	3
HIST	1107	U.S. History I	3
Liberal Studies - Scientific Discovery elective			4
Foreign Language - French or Spanish			3
			16

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English	3
HIST	1108	U.S. History II	3
Liberal Studies - Scientific Discovery elective			4
Foreign Language - French or Spanish			3
Thea, Music, Art/Intro 1120			3
			16

SOPHOMORE FIRST SEMESTER

ENGL	2220/2221/2230	World Lit I, II/Intro to Lit. I	3
HIST	2211	World Civilization I	3
MATH any college level			3
SSCI/Humanities (#1)			3
Foreign Language - French or Spanish			3
			15

SOPHOMORE SECOND SEMESTER

ENGL	2220/2221/2231	World Lit I, II/Intro Lit II	3
HIST	2212	World Civilizations II	3
SSCI/Hmanities #2			3
INFO	1100	Comp. Concepts & App	3
History Elective #1			3
Foreign Language - French or Spanish			3
			18

JUNIOR FIRST SEMESTER

HIST	2213	World Civilizations III	3
History Elective #2			3
History Elective #3			3
History Elective #4			3
Minor field course #1			3
ENGL	3332/3333	Narr Desc Writing	3
			18

JUNIOR SECOND SEMESTER

History Elective #5	3
History Elective #6	3
Minor field course (#2)	3
Minor field course #3	3
Minor field course (#4)	3
	15

SENIOR FIRST SEMESTER

HIST	4498	Senior Seminar	3
History Elective (#7)			3
History Elective (#8)			3
Minor field course (#5)			3
Minor field course (#6)			3
			15

SENIOR SECOND SEMESTER

History Elective (#9)	3
Minor/Elective	3
Minor/Elective	3
Elective	3
Elective	3
	15

BACHELOR OF SCIENCE IN HISTORY ..... 128 sem. hrs.

History Courses:	45 hrs.
Liberal Studies Requirements:	44 hrs.
Additional Requirements:	12 hrs.
Minor	18 hrs.
Free Electives	9 hrs.

• Required History Courses ..... 18 hrs.

HIST	1107	United States History I	3
HIST	1108	United States History II	3
HIST	2211	World Civilizations I	3
HIST	2212	World Civilizations II	3
HIST	2213	World Civilizations III	3
HIST	4498	Senior Seminar	3

• Advanced History Electives ..... 27 hrs.

Selected with advisor's approval and must include at least three courses from each of the two groups listed below. Advanced electives may be taken only when prerequisites are met or with the instructor's permission.

Group I. United States History

HIST	3302	West Virginia	3
HIST	3310	Diplomatic History of the United States	3
HIST	3315	Colonial America	3
HIST	3316	The Early Republic	3
HIST	3317	Civil War and Reconstruction	3
HIST	3318	Gilded Age to the Great Crash	3
HIST	3319	Recent America	3
HIST	3333	Social History of the American Woman	3

HIST 3344 African-American History and Culture 3
HIST 4499 Selected Topics 3

Group II. World History and Topical Studies
HIST 3351 History of England 3
HIST 3352 History of Russia 3
HIST 4405 History of Africa 3
HIST 4410 History of Asia 3
HIST 4420 History of Latin America 3
HIST 4425 Medieval Europe 3
HIST 4431 Recent Europe 3
HIST 4455 Revolutions in History 3
HIST 4475 Philosophy of History 3
HIST 4499 Selected Topics 3

• Additional Requirements: ..... 12 hrs.

ENGL 3322 Narrative & Descriptive Writing 3
- or -
ENGL 3333 Writing Non-Fiction 3
POLI 2240 Nonparametric Statistics 3

Social/Behavioral Electives (6 hrs)
Students must choose from the following list:

ECON 2200 Economics 3
ENGL 3382 The World Novel 3
INTR 1100 Race, Class, and Gender 3
PHIL 2250 The Great Philosophers 3
PHIL 3325 Ethics 3
POLI 2200 Introduction to Political Science 3
POLI 3304 Amer. Constitutional Government and Law .. 3
PSYC 2220 History of Psychology 3
PSYC 2230 Social Psychology 3
SOCY 1111 Introduction to Anthropology 3
SOCY 3360 Methods of Social Research 3

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER
ENGL 1104 Written English I 3
SPCH 1100 Intro. to Speech Comm. 3
MATH (any college level) 3
HIST 1107 U.S. History I 3
Liberal Studies - Scientific Discovery elective 4
16

FRESHMAN SECOND SEMESTER
ENGL 1108 Written English II 3
HIST 1108 U.S. History II 3
Liberal Studies - Scientific Discovery elective 4
INFO 1100 Comp. Concepts & Appls 3
Thea, Music, Art/Intr 1120 3
16

SOPHOMORE FIRST SEMESTER
ENGL 2220/2221/2230 World Lit I, II/Intro to Lit I 3
HIST 2211 World Civilization I 3
POLI 2240 Nonpar Statistics 3
SSCI/Humanities (#1) 3
HIST Elective #1 3
15

SOPHOMORE SECOND SEMESTER
ENGL 2220/2221/2231 World Lit I, II/Intro to Lit II 3
HIST 2212 World Civilizations II 3
SSCI/Humanities #2 3
Minor field course (#1) 3
HIST Elective #2 3
15

JUNIOR FIRST SEMESTER
HIST 2213 World Civilizations III 3
HIST Elective #3 3
HIST Elective #4 3
Minor field course (#2) 3
Minor field course (#3) 3
ENGL 3332/3333 Narr Desc Writing / Writing 3
18

JUNIOR SECOND SEMESTER
HIST Elective #5 3
HIST Elective #6 3
Minor field course (#4) 3
Minor field course (#5) 3
HIST Soc Behav Elect #1 3
15

SENIOR FIRST SEMESTER
HIST 4498 Senior Seminar 3
HIST Elective #7 3
HIST Elective #8 3
Minor field course (#6) 3
HIST Soc Behav Elect #2 3
Elective 3
18

SENIOR SECOND SEMESTER
HIST Elective #9 3
Minor/Elective 3
Minor/Elective 3
Elective 3
Elective 3
15

MINOR IN HISTORY ..... 21 sem. hrs.
Required courses (6 hrs.)

HIST 1107 United States History I 3
HIST 1108 United States History II 3

Electives (6 hrs.)
(Select two of the following courses)
HIST 2211 World Civilizations I 3
HIST 2212 World Civilizations II 3
HIST 2213 World Civilizations III 3

Advanced Electives (9 hrs.)

Select three courses from Group I (United States History) and Group II (World History and Topical Studies), shown above. At least one course must be taken from each group.

INTELLIGENCE RESEARCH & ANALYSIS

The Intelligence Research & Analysis Program is a concentration in the Social Sciences which is designed to provide the necessary background for students to pursue careers as research and/or intelligence analysts in government agencies and private enterprise. The work of these analysts, whether relating to national security or criminal investigative activities, involves the preparation of assessments based on the collection, correlation, and analysis of intelligence data.

Students seeking a Bachelor of Arts degree in Intelligence Research & Analysis and must apply to the Intelligence Re-

search & Analysis Program advisor and successfully complete an interview. To be recommended for graduation, the student must have a minimum GPA of 3.0 in all courses. Students who earn a grade of D or less in a course within the concentration must repeat that course.

The program advisor will conduct an annual review of the academic progress of all students enrolled in the Program. Students whose GPA falls below 3.0 or who might otherwise exhibit behavior that is not conducive to ensuring employment in this field will be placed on probation or dropped from the program, depending on the outcome of the review.

BACHELOR OF ARTS IN INTELLIGENCE RESEARCH & ANALYSIS ..... 128 sem. hrs.

Intelligence Research & Analysis Curriculum *(see below)* ..... 58 sem. hrs.
Liberal Studies Requirements ..... 56 sem. hrs.
Free Electives ..... 15 sem. hrs.

- **Intelligence Research & Analysis Curriculum ..... 58 sem. hrs.**

Required courses (52 hrs.)

BUSN	3330	Business Intelligence	3
HIST	1107	U.S. History I	3
HIST	1108	U.S. History II	3
HIST	2213	World Civilizations III	3
HIST	3301	History of Intelligence and Nat. Security	3
HIST	3310	Diplomatic History	3
PSYC	2240	Statistics	4
POLI	1103	American Government	3
POLI	2201	Principles of International Relations	3
POLI	2203	Comparative Government	3
POLI	2204	Introduction to Public Administration	3
POLI	3340	Research Methods and Analysis	3
-or-			
CRJU	4410	Research in Criminal Justice	3
POLI	3350	International Law and Organization	3
POLI	4405	Terrorism	3
PHIL	3350	Comparative Religion	3
SSCI	1101	Intro. to Intelligence Research	3
SSCI	4450	IRA Senior Seminar Project	3

Intelligence Research & Analysis Electives (6 hrs.)

ECON	3302	Macroeconomics	3
CRJU	2236	Criminal Investigation	3
CRJU	2246	Criminal Evidence	3
CRJU	3310	Comparative Criminal Justice	3
POLI	3310	Recent Political Theory	3
SSCI	2200	Field Experience Practicum	3
Language Related Culture & History Course			3

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

HIST	1107	U.S. History I	3
POLI	1103	American Government	3
SCIE	1110	Scientific Discovery Option	4
MATH	1107	Fundamental Concepts	3
ENGL	1104	Written English I	3
			16

FRESHMAN SECOND SEMESTER

HIST	1108	U.S. History II	3
SSCI	1101	Intro. to Intelligence Research	3
SCIE	1110	Scientific Discovery Option	4
ENGL	1108	Written English II	3
SPCH	1100	Intro. to Speech	3
			16

SOPHOMORE FIRST SEMESTER

HIST	2213	World Civilization III	3
POLI	2204	Intro. to Public Administration	3
Foreign Language			3
POLI	2203	Comparative Government	3
INFO	1100	Comp. Con. & Appl. (or electives)	3
			15

SOPHOMORE SECOND SEMESTER

HIST	3310	Diplomatic History	3
Foreign Language			3
POLI	2201	Prin. of Intl. Relations	3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
Minor/Elective			3
			15

JUNIOR FIRST SEMESTER

HIST	3301	Hist. of Intelligence & Natl. Sec	3
PSYC	2240		3
POLI	3310	Political Theory	3
Foreign Language			3
Minor/Elective			3
Minor/Elective			3
			18

JUNIOR SECOND SEMESTER

POLI	3340	Research Meth and Analysis	3
- or-			
CRJU	4410		3
PHIL	3350	Comparative Religion	3
Foreign Language			3
POLI	3350	Inter. Law and Organizations	3
POLI	4405	Terrorism	3
or			
CRJU	4405	Terrorism	3
Minor/Elective			3
			18

SENIOR FIRST SEMESTER

ENGL	2220/2230	Literature (or option)	3
IRA Elective			3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
SSCI	1101	Intro. to Intelligence Research	3
Minor/Elective			3
			15

SENIOR SECOND SEMESTER

SSCI	4450	IR &A Senior Seminar/Project	3
ENGL	2221/2231	Literature (or option)	3
Ir & A elective			3
Minor/Elective			3
Minor/Elective			3
			15

MINOR IN INTELLIGENCE RESEARCH & ANALYSIS ..... 21 sem. hrs.

Required courses (21 hrs.)

CRJU	2246	Criminal Evidence	3
CRJU	4410	Research in Criminal Justice	3
HIST	3310	Diplomatic History	3
POLI	2204	Introduction to Public Administration	3
POLI	4405	Terrorism	3
SSCI	1101	Intro. to Intelligence Research	3
SSCI	2200	Field Experience Practicum	3

PHILOSOPHY (MINOR ONLY)

Philosophy is neither dogma nor advice for daily living nor a body of truisms. Rather, it examines the premises on which systematic thought may rest; it explores the types of thought that may be produced in such areas of concern as ethics, politics, aesthetics, metaphysics, and epistemology; and it evaluates the advantages and disadvantages inherent in various modes and systems of thought. Thus philosophy encourages the thinking person to develop a sophisticated self-conception and world-view, and to examine his/her values, expectations, commitments and loyalties in a rational and realistic manner.

MINOR IN PHILOSOPHY ..... **15 sem.hrs.**
Required courses (6 hrs.)

PHIL	2200	Introduction to Philosophy	3
PHIL	2250	Great Philosophers	3

Electives (9 hrs.)

Choose from any of the remaining Philosophy courses available.

POLITICAL SCIENCE

The Political Science curriculum is designed to provide an understanding of the political process in its many manifestations, including the structure of government institutions, the political behavior of individuals and groups, the study of public problems characteristic of modern societies, and a consideration of the interrelationships of institutions at different levels of government.

The principal objectives of the Political Science Program are:

1.) To lay the basis for an understanding of governmental and administrative processes for individuals planning public service careers in national, state, or local government
2.) To foster an understanding of the substance and methods of the study of government and politics as preparation for graduate work in political science or public administration
3.) To provide thorough preprofessional training for students anticipating law school.

Courses allow students to concentrate in broad fields and to develop more specialized programs reflecting their particular interests. Generally, 1100-2200 level courses are survey courses and 3300-4400 level courses cover more specific topics. While both the major and minor in political science typically consist of necessary introductory work, the faculty strongly urges students with a minor in political science to take Nonparametric Statistics (POLI 2240) and Seminar in Political Science (POLI 4470). Schedules should be planned in consultation with an advisor, and students are encouraged to explore a variety of courses. Eligible students are also encouraged to intern in Washington, D.C. with the Washington Center for Internships and Academic Seminars *(see Special Academic Programs)*.

BACHELOR OF ARTS IN POLITICAL SCIENCE ..... **128 sem. hrs.**
- **Political Science Curriculum** *(see below)* ..... **36 sem. hrs.**
- **Liberal Studies Requirements** ..... **56 sem. hrs.**
- **Minor** ..... **18 sem. hrs.**
- **Free Electives** ..... **18 sem. hrs.**

• **Political Science Curriculum** ..... **36 sem. hrs.**
Required courses (21 hrs.)

POLI	1103	American Government	3
POLI	2200	Introduction to Political Science	3
POLI	2201	Principles of International Relations	3
POLI	2203	Comparative Government	3
POLI	2240	Nonparametric Statistics	3
POLI	3340	Political Science Research Methods	3
POLI	4470	Seminar in Political Science	3

Political Science Electives (15 hrs.)

Students may choose from among any advanced Political Science courses, with their advisor's approval.

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
POLI	1103	American Government	3
Liberal Studies - Scientific Discovery elective			4
Liberal Studies - College-level Math elective			3
Foreign Language			3
			16

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
POLI	2200	Intro. to Political Sci.	3
Foreign Language			3
Liberal Studies - Scientific Discovery elective			4
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
			16

SOPHOMORE FIRST SEMESTER

ENGL	2220/2230	World Lit / Intro Lit. I	3
Foreign Language			3
POLI	2201	Prin. of Intl. Relations	3
INFO	1100		3
SPCH	1100	Intro. to Speech Communication	3
			15

SOPHOMORE SECOND SEMESTER

Foreign Language			3
ENGL	2221/2231	World Lit I / Intro Lit I	3
POLI	2203	Camparatiave Gov.	3
Non POLI Hum. Elective			3
Minor/Elective			3
			15

JUNIOR FIRST SEMESTER

POLI Elective			3
POLI Elective			3
POLI	2240	Nonparametric Statistics	3
Minor/Elective			3
Minor/Elective			3
Minor/Elective			3
			18

JUNIOR SECOND SEMESTER

Minor/Elective			3
POLI	3340	Political Science Research Methods	3
Minor/Elective			3
Minor/Elective			3
Minor/Elective			3
			15

SENIOR FIRST SEMESTER

POLI Elective			3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3

Minor/Elective 3
Minor/Elective 3
Minor/Elective 3
Minor/Elective 3
18

SENIOR SECOND SEMESTER

POLI Elective 3
POLI 4470 Seminar in Political Science 3
Minor/Elective 3
Minor/Elective 3
Minor/Elective 3
15

MINOR IN POLITICAL SCIENCE ..... 18 sem. hrs.
Required courses (6 hrs.)

POLI 1103 American Government 3
POLI 2200 Introduction to Political Science 3

Electives (12 hrs.)

Students may choose from among any advanced Political Science courses, with their advisor's approval.

MINOR IN PUBLIC ADMINISTRATION ..... 21 sem. hrs.
Required courses (15 hrs.)

FINC 2201 Introduction to Finance 3
MGMT 2209 Principles of Management 3
MGMT 3308 Personnel Management 3
POLI 2204 Introduction to Public Administration 3
SOCY 3360 Methods of Social Research 3

Electives (6 hrs.)

BUSN 3310 Statistics 3
MGMT 3390 Human Behavior in the Organization 3
MGMT 4409 Quantitative Management 3
POLI 2205 State and Local Government 3

MINOR IN INTERNATIONAL STUDIES ..... 21 sem. hrs.
Required courses (12 hrs.)

BUSN 3320 International Business 3
GEOG 3305 Economic Geography 3
PHIL 3350 Comparative Religion 3
POLI 2201 Principles of International Relations 3

International Studies Electives (9 hrs.)
Select from at least two disciplines.

BIOL 2285 Tropical Studies 3
ECON 3308 International Economics 3
ENGL 3381 The British Novel 3
ENGL 3382 The World Novel 3
FREN 3314 French Civilization and Culture 3
GEOG 3340 Geography of Europe 3
GEOG 3350 Geography of Latin America 3
GEOG 3360 Geography of Africa 3
GEOG 3370 Geography of Asia 3
HIST 3310 Diplomatic & Military History of the U.S. 3
HIST 3351 History of England 3
HIST 3352 History of Russia 3
HIST 4405 History of Africa 3
HIST 4410 History of Asia 3
HIST 4420 History of Latin America 3
HIST 4431 Recent Europe 3
HIST 4455 Revolutions in History 3
PHIL 3325 Ethics 3
POLI 2203 Comparative Government 3
POLI 3321 U.S. Foreign Policy 3
POLI 3350 International Law and Organization 3
POLI 3393 Future Global Crises 3
POLI 4405 Terrorism 3
POLI 4406 International Problems 3
POLI 4411 Area Studies 3
POLI 4412 Area Studies 3
POLI 4413 Area Studies 3
SOCY 3301 Ethnology 3
SPAN 3310 Spanish Civilization & Culture 3
SPAN 3320 Latin American Civilization & Culture 3

SOCIAL STUDIES

The Social Studies 5-Adult Comprehensive Specialization is intended for those students preparing to teach in elementary, middle, or secondary schools. This degree program leads to a B.A. in Education and is designed to provide the interdisciplinary foundation necessary for teachers entering an integrated social science curriculum. Students desiring to teach a particular subject, such as history, should augment the required courses with appropriate elective hours. Courses marked with an asterisk must be completed prior to admission to the Initial Performance Practicum and are offered only in the Fall Semester. Successful completion of PRAXIS (PPST) Test is a prerequisite.

BACHELOR OF ARTS IN EDUCATION, TEACHING SPECIALIZATION IN SOCIAL STUDIES GRADES 5-ADULT ..... 137 sem. hrs.
Social Studies Curriculum *(see below)* ..... **60 sem. hrs.**
Liberal Studies Requirements ..... **44 sem. hrs.**
Professional Education Courses ..... **33 sem. hrs.**

• **Social Studies Curriculum ..... 60 sem. hrs.**
Required Courses (51 hrs.)

ECON 2200 Economics 3
GEOG 2210 Introduction to Geography 3
GEOG Elective 3
HIST 1107 United States History I 3
HIST 1108 United States History II 3
HIST 2211 World Civilizations I 3
HIST 2212 World Civilizations II 3
HIST 2213 World Civilizations III 3
HIST 3302 West Virginia 3
HIST 3319 Recent America 3
HIST 4431 Recent Europe 3
POLI 1103 American Government 3
POLI 2200 Introduction to Political Science 3
SOCY 1110 Introductory Sociology 3
SOCY 3301 Ethnology 3
SSCI *4431 Methods & Materials of Teach. Soc. Studies ... 3
SSCI *4498 Interdisciplinary Seminar 3

Electives (9 hrs.)
(Select one of the following options.)

Option 1: A second teaching field outside the social sciences, grades 5-Adult.
See School of Education for more information.

Option 2: Social Science Advanced Studies

These advanced studies in the social sciences allow prospective teachers to explore and understand the state guidelines for teacher education and the corresponding competencies in greater depth. These may be chosen from:

ECON	2202	Economic Principles & Problems II	3
ECON	3301	Inter. Economic Analysis: Microeconomics	3
ECON	3302	Inter. Economic Analysis: Macroeconomics	3
ECON	3303	Money, Credit & Banking	3
GEOG	3305	Economic Geography	3
GEOG	3315	Urban Geography	3
GEOG	3330	Geography of North America	3
GEOG	3340	Geography of Europe	3
GEOG	3350	Geography of Latin America	3
GEOG	3360	Geography of Africa	3
GEOG	3370	Geography of Asia	3
HIST	Any course		
PHIL	2200	Introduction to Philosophy	3
PHIL	2250	Great Philosophers	3
PHIL	3325	Ethics	3
PHIL	3350	Comparative Religion	3
PHIL	4475	Philosophy of History	3
POLI	2201	Principles of International Relations	3
POLI	2203	Comparative Government	3
POLI	2205	State & Local Government	3
POLI	3303	Political Parties	3
POLI	3304	Amer. Constitutional Government and Law	3
POLI	3305	American Political Theory	3
POLI	3306	The American Presidency	3
POLI	3307	Congress & the Legislative Process	3
POLI	3310	Recent Political Theory	3
POLI	4404	Civil Liberties in the U.S.	3
POLI	4410	Problems in American Government	3
POLI	4411	Area Studies	3
POLI	4412	Area Studies	3
POLI	4413	Area Studies	3
PSYC	1101	Introduction to Psychology	3
PSYC	2230	Social Psychology	3
PSYC	2250	Community Psychology	3
PSYC	3300	Abnormal Psychology	3
PSYC	3330	Developmental Psychology	3
PSYC	3393	Future Global Crises	3
PSYC	4410	Theories of Personality	3
PSYC	4491	Psychopathology of Child. and Adolescence	3
PSYC	4493	The Psychology of Aging	3
PSYC	4494	Interpersonal Dynamics	3
PSYC	4495	The Psychology of Delinquency	3
SOCY	2200	Social Problems	3
SOCY	2230	Social Psychology	3
SOCY	3310	Sociology of the Family	3
SOCY	3340	Juvenile Delinquency	3
SOCY	4430	Community Organization	3
SOCY	4450	Minority Groups	3

• Professional Education ..... 33 sem. hrs.

EDUC	2200	Intro. to Education	3
EDUC	2201	Instructional Technology	3
EDUC	2202	Human Growth and Development	3
EDUC	2202L	Laboratory - Clinical I	1
EDUC	3331	Reading in the Content Areas	3
EDUC	3351	Human Exceptionalities and Cul. Diversity	3
EDUC	3351L	Laboratory - Clinical II	1
EDUC	3352	Educational Psychology	3
EDUC	3352L	Laboratory - Clinical II	1
EDUC	3395	Secondary Classroom Org. & Practices	4
EDUC	4495	Secondary Student Teaching/Clinical III	8

Department of Behavioral Science

■ Dr. Clarence Rohrbaugh, Chair
110e Hardway Hall / (304) 367-4669
FAX: (304) 367-4785
crohrbaugh1@fairmontstate.edu

FACULTY

CAMERON, ROBERT B. (1972)
Professor of Psychology

FITCH, JOHN R. (1970)
Associate Professor of Sociology

JOSHI, TULASI R. (1972)
Professor of Geography

KATO, TADASHI (2003)
Assistant Professor of Psychology

LARRY, JOSEPH (1974)
Associate Professor of Sociology/Psychology

ROHRBAUGH, CLARENCE C. (2002)
Assistant Professor of Psychology
Graduate Faculty

SHAVER, ANN V. (1997)
Associate Professor of Psychology

SHAVER, A. JOSEPH (1988)
Professor of Psychology

WHITE, CRAIG C. (1967)
Professor of Sociology

YOUNG, JAMES R. (1967)
Associate Professor of Geography

GEOGRAPHY (MINOR ONLY)

The Geography Program strives to create an environment in which the students are challenged to promote their own intellectual, social and personal development. Course offerings are designed to develop many worthwhile concepts, skills and attitudes. Students learn the manner in which people from different parts of the world make use of their natural/cultural environments, as well as how life and events in different parts of the world interrelate with one another. A background in geography is appropriate for possible careers in education, agriculture, industry, government, business, community planning and military service.

MINOR IN GEOGRAPHY ..... 18 sem. hrs.
Required courses (9 hrs.)

GEOG	2210	Introduction to Geography	3

GEOG	3305	Economic Geography	3
GEOG	3315	Urban Geography	3

Electives (9 hrs.)

Select any other courses in geography or geology.

PSYCHOLOGY

Psychology is the science that deals with the study of behavior. The Psychology Program at FSU has been developed to provide a strong foundation of applied and theoretical knowledge for those students anticipating either future graduate training or immediate employment. All Psychology majors are required to complete a minimum of 40 hours, which allows the student to develop a broad knowledge base within the discipline. Students may also pursue additional coursework in the areas of Community, Industrial and Forensic Psychology. The psychology curricula are ideal for students anticipating graduate work in various areas of psychology, social work and counseling. Students who are preparing for the areas of medicine and law also utilize the psychology major.

Psychology majors are encouraged to select a number of elective specialized psychology courses that could serve to expand their breadth of knowledge in particular areas of psychological interest. They may choose courses from either the Community Service or the Industrial Personnel areas to satisfy their future professional needs.

Students with a B.S. degree in psychology are eligible for a variety of entry-level positions in the areas of education, business, management, advertising, government, health-care, criminal justice and sales.

BACHELOR OF SCIENCE IN PSYCHOLOGY ..... 128 sem. hrs.

Psychology Curriculum *(see below)* ..... **40 sem. hrs.**
Liberal Studies Requirements ..... **44 sem. hrs.**
Free Electives ..... **44 sem. hrs.**

- **Psychology Curriculum** ..... **40 sem. hrs.**

Required courses (40 hrs.)

PSYC	1101	Introduction to Psychology	3
PSYC	2220	History & Systems of Psychology	3
PSYC	2230	Social Psychology	3
PSYC	2240	Statistics	4
PSYC	3300	Abnormal Psychology	3
PSYC	3310	Experimental Psychology	3
PSYC	3330	Developmental Psychology	3
PSYC	3350	Biopsychology	3
PSYC	3370	Theories of Learning	3
PSYC	3390	Foundations of Psychology	3
PSYC	4400	Psychometrics	3
PSYC	4410	Theories of Personality	3
PSYC	4460	Seminar	3

Optional Specialized Electives

Community Service

Psychology majors interested in enhancing community service delivery knowledge and skills are encouraged to take six to 12 hours from the following specialized courses.

PSYC	2250	Community Psychology	3
PSYC	3399	Special Topics	3
PSYC	4480	Directed Studies	1-3
PSYC	4490	Directed Research	1-3
PSYC	4491	Psychopathology of Child. & Adolescence	3
PSYC	4493	The Psychology of Aging	3
PSYC	4494	Interpersonal Dynamics	3
PSYC	4495	Delinquency	3
PSYC	4497	Practicum	3
PSYC	4485	Advanced Psychometrics	3

Industrial Personnel

Psychology majors interested in enhancing skills relevant to industrial personnel careers are encouraged to take six to 12 hours from the following specialized courses.

PSYC	2260	Industrial and Personnel	3
PSYC	3360	Cognitive Psychology	3
PSYC	4480	Directed Studies	3
PSYC	4490	Directed Research	3
PSYC	4481	Methods	3
PSYC	4485	Advanced Psychometrics	3
PSYC	4487	Practicum	3

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
PSYC	1101	Intro. to Psychology	3
Liberal Studies Courses			6-9
Minor			3
			16-18

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
PSYC	2220	History and Systems of Psychology	3
PSYC	2230	Social Psychology	3
MATH	1107	Fundamental Concepts	3
Liberal Studies Courses			6-9
			16-18

SOPHOMORE FIRST SEMESTER

ENGL	2220	World Literature	3
or			
ENGL	2230	Intro. to Literature I	3
PSYC	2240	Statistics	3
PSYC	3300	Abnormal Psychology	3
Minor			3-6
Liberal Studies Courses			3-6
			16-18

SOPHOMORE SECOND SEMESTER

ENGL	2221	World Literature	3
or			
ENGL	2231	Intro. to Literature II	3
PSYC	3310	Experimental Psychology	3
PSYC	3370	Theories of Learning	3
Minor			3-6
Liberal Studies Courses			3-6
			18-27

JUNIOR FIRST SEMESTER

PSYC	3330	Developmental Psychology	3
PSYC	3390	Foundation of Psychology	3
PSYC		Elective Specialization Course	3
Liberal Studies Courses (as needed)			3-6
			16-18

JUNIOR SECOND SEMESTER

PSYC	3350	Biopsychology	3
PSYC	4400	Psychometrics	3

General Elective 3-6
Liberal Studies Courses (as needed)
16-18

SENIOR FIRST SEMESTER
PSYC 4410 Theories of Personality 3
PSYC Elective 3-6
General Elective (as needed)
Liberal Studies Courses (as needed)
16-18

SENIOR SECOND SEMESTER
PSYC 4460 Seminar 3
PSYC Electives 3-6
General Elective (as needed)
Liberal Studies Courses (as needed)
16-18

MINOR IN PSYCHOLOGY ..... 18 sem. hrs.

The psychology minor offers students the opportunity to enhance their major academic area with an emphasis on behavioral understanding and insight. To ensure the selection of relevant courses, students interested in obtaining a psychology minor should discuss their plans with a psychology faculty member. Students must meet any prerequisite requirements before taking courses.

Required courses (3 hrs.)

PSYC 1101 Introduction to Psychology 3

Electives (15 hrs.)

Any two courses from the 2200 level 6
Any three courses from the 3300 or 4400 level 9

FORENSIC PSYCHOLOGY

(See Interdisciplinary Programs)

SOCIOLOGY

Sociology is the systematic study of society and human activity. The Bachelor of Science degree in Sociology is designed to enhance the student's ability to understand various forms of social and cultural interaction. With an emphasis on both sociological and anthropological theory and research, the sociology degree is useful preparation for advanced graduate study as well as entry-level employment. The Program will expand a student's ability to question and understand various forms of social interaction in social and cultural systems. The courses offered here will provide knowledge of the substantive areas of sociology and anthropology, the use of concepts and research techniques of sociological investigation, and background in sociological theory.

Students with a B.S. degree in Sociology frequently find employment in entry-level positions within public administration, advertising, business, social service agencies, health services, community planning and teaching. Many sociology majors also pursue graduate study in such areas as sociology, social work, public administration, anthropology and law.

BACHELOR OF SCIENCE IN SOCIOLOGY ... 128 sem. hrs.
Sociology Curriculum *(see below)* ..... **30 sem. hrs.**
Liberal Studies Requirements ..... **44 sem. hrs.**
Free Electives ..... **54 sem. hrs.**

• **Sociology Curriculum** ..... **30 sem. hrs.**
Required courses (18 hrs.)

SOCY 1110 Introductory Sociology 3
SOCY 2200 Social Problems 3
SOCY 2240 Nonparametric Statistics 3
SOCY 3301 Ethnology 3
SOCY 3360 Methods of Social Research 3
SOCY 4470 Sociological Theory 3

Sociology Electives (12 hrs.)

Any four courses from 2200 level or above 12

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER
ENGL 1104 Written English I 3
SOCY 1110 Introductory to Sociology 3
SSCI Requirement 3
PHED 1100 Fitness and Wellness 2
SSCI Requirement 2-4
13-15

FRESHMAN SECOND SEMESTER
ENGL 1108 Written English II 3
SOCY 2200 Social Problems 3
SSCI Requirement 3
Liberal Studies - Artistic/Creative/Interdisciplinary elective 3
SSCI Requirement 3
MATH 1107 Fund Concepts of Math 3
13-15

SOPHOMORE FIRST SEMESTER
SPCH 1100 Intro. to Speech Communication 3
SOCY Elective 3
Liberal Studies - Literature 3
Minor/Elective 3
Liberal Studies - Scientific Discovery elective 2-4
12-16

SOPHOMORE SECOND SEMESTER
Minor/Elective 3
SOCY 3301 Ethnology 3
Liberal Studies - Literature 3
INTR 1100 Race, Class, Gender 3
Liberal Studies - Scientific Discovery elective 2-4
12-16

JUNIOR FIRST SEMESTER
SOCY 2240 Nonparametric Statistics 3
SOCY Elective 3
Minor/Elective 3
SSCI Requirement 3
Minor Elective 3
15

JUNIOR SECOND SEMESTER
SOCY 3360 Methods of Soc. Research 3
SOCY Elective 3
Minor 3
Minor 3
Minor 3
Minor 3
18

SENIOR FIRST SEMESTER

SOCY	4470	Sociological Theory	3
SOCY Elective			3
Minor/Elective			3
SOCY	4490/Minor	Seminar: Sociology. Thry	3
Minor/Elective			3
Minor/Elective			3
			18

SENIOR SECOND SEMESTER

SOCY Elective			3
Minor/Elective			3
Minor/Elective			3
Minor/Elective			3
Minor/Elective			3
Minor/Elective			3
			18

MINOR IN SOCIOLOGY ..... 18 sem. hrs.

Required courses (9 hrs.)

SOCY	1110	Introductory Sociology	3
SOCY	2200	Social Problems	3
SOCY	3301	Ethnology	3

Electives (9 hrs.)

College of Science and Technology

■ Dr. Steven K. Roof
Interim Dean, College of Science and Technology
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Department of Biology, Chemistry and Geoscience

■ Dr. Erica Harvey, Interim Chair
328 Hunt Haught Hall / (304) 367-4642
eharvey@fairmontstate.edu

FACULTY

BAUR, ANDREAS (2000)
Associate Professor of Chemistry

BAXTER, HARRY N., III (1985)
Professor of Chemistry

BRADLEY, DANIEL J. (2001)
President of Fairmont State University
Professor of Chemistry and Engineering Technology

DODSON, SARAH (2005)
Assistant Professor of Biology

ENSIGN, TODD (2005)
Temporary Assistant Professor of Geoscience

FLOOD, MARK R. (1994)
Professor of Biology

HARVEY, ERICA L. (1994)
Professor of Chemistry

HEMLER, DEBRA A. (2000)
Coordinator of Geoscience Education
Associate Professor of Geoscience Education
Graduate Faculty

HUGGINS, PAMELA A. (2002)
Assistant Professor of Biology

KEELING, CYNTHIA (2005)
Temporary Assistant Professor of Geoscience

MAGRO, ALBERT (1992)
Senior Professor of Biology

MASON, PHILLIP J. (1998)
Vice President for Research & Graduate Studies
Professor of Biology

MORRIS, TONY E. (1994)
Professor of Biology

REPINE, THOMAS E. (2005)
Temporary Assistant Professor of Geoscience

SCANLON, MATTHEW (1991)
Professor of Chemistry

TRISEL, DONALD E. (1995)
Associate Professor of Biology

WEEKLEY, JAMES (2005)
Temporary Instructor of Chemistry

WHITE, JESSE (2006)
Temporary Assistant Professor of Geoscience

YEAGER, PHILLIP E. (1999)
Associate Professor of Biology

BIOLOGY

Biology, the study of life, is a wide-ranging and rapidly growing discipline. Understanding biology requires a working knowledge of all the sciences, especially chemistry and mathematics. The biology program at FSU strives to provide students with a broad-based education in all fields of biology as well as a fundamental knowledge of chemistry and mathematics. Students are required to complete basic courses in biology designed to provide a comprehensive understanding of living organisms. Electives allow students the flexibility to gain additional knowledge in an area of interest. No minor is required for biology majors.

A four-year B.S. degree in biology will prepare students to compete for entry level jobs such as lab technician, wildlife biologist, research scientist or naturalist, among others. While a bachelor's degree in biology will help students get a job, many careers require additional education beyond the B.S. degree. Many of our best students compete successfully for admission to graduate study at institutions across the country. A biology degree will also provide pre-professional training required by fields such as dentistry, medicine, pharmacy, and veterinary medicine. Students who major in biology select one of the following degree programs:

1.) the B.S. in Biology degree as preparation for employment, professional school or graduate study
2.) the B.S. in Biology degree with an emphasis in biotechnology as preparation for employment, professional school, or graduate study
3.) the B.A. in Education degree with a specialization in biology, as preparation for teaching biology in grades 9-Adult. All courses must be completed prior to admission to Secondary Student Teaching/Clinical III.

In addition to meeting the graduation requirements listed for the B.S. in Biology or B.A. in Education degree, students must also:

1.) obtain a grade of "C" or better in BIOL 1105, 1106, 2202, and 2203
2.) successfully complete an assessment exam the semester before applying for graduation.

BACHELOR OF SCIENCE IN BIOLOGY ..... 128 sem. hrs.
Biology Curriculum *(see below)* ..... 68 sem. hrs.
Liberal Studies Requirements ..... 33 sem. hrs.
(See "Degree Requirements" for LSRs not completed through the major)
Free Electives ..... 27 sem. hrs.

• BIOLOGY CURRICULUM ..... 68 sem. hrs.
Required courses (56 hrs)

BIOL	1105	Biological Principles I	4
BIOL	1106	Biological Principles II	4
BIOL	2202	General Botany	4
BIOL	2203	General Zoology	4
BIOL	3306	Fundamentals of Ecology	4
BIOL	3368	Animal Physiology	4
-or-			
BIOL	3370	Plant Physiology	4
BIOL	3380	Genetics	4
BIOL	3390	Molecular Biotechnology	4
BIOL	4485	Senior Seminar	2
CHEM	1105	Chemical Principles I	5
CHEM	1106	Chemical Principles II	4
CHEM	1113	Practical Scientific Stat. with a Spreadsheet	1
CHEM	2201	Organic Chemistry I	4
CHEM	2202	Organic Chemistry II	4
MATH	1185	Applied Calculus I	4
-or-			
MATH	1190	Calculus I	4

• BIOLOGY ELECTIVES ..... 12 sem. hrs.
Students must take courses from at least two different areas listed below.

Cellular/Molecular Area

BIOL	3360	Biochemistry	4
BIOL	4420	Developmental Biology	4

Organismal Area

BIOL	3312	Advanced Botany	4
BIOL	3315	Invertebrate Zoology	4
BIOL	3316	Vertebrate Zoology	4

Population/Community Area

BIOL	3330	Aquatic Ecology	4
BIOL	3331	Terrestrial Ecology	4

• Additional requirements for Biotechnology Emphasis ..... 25-27 sem. hrs.

BIOL	3360	Biochemistry	4
CHEM	2205	Analytical Chemistry	4
CHEM	3301	Physical Chemistry	4
CHEM	4405	Advanced Integrated Lab	1
MATH	1113	Applied Statistics	4
PHYS	1101/02	Intro to Physics I, II	8
-or -			
PHYS	1105/06	Principles of Physics I, II	10

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

BIOL	1105	Biological Principles I	4
CHEM	1105	Chemical Principles I	5
MATH	1185	Applied Calculus I	4
ENGL	1104	Written English I	3
			16

FRESHMAN SECOND SEMESTER

BIOL	1106	Biological Principles II	4
CHEM	1106	Chemical Principles II	4
CHEM	1113	Pract. Sci. Statistics	1
ENGL	1108	Written English II	3
SPCH	1100	Intro. to Speech Communication	3
			15

SOPHOMORE FIRST SEMESTER

BIOL	2203	General Zoology	4
CHEM	2201	Organic Chemistry I	4
INFO	1100	Comp. Concepts	3
Liberal Studies Requirement			3
Liberal Studies Requirement			3
			17

SOPHOMORE SECOND SEMESTER

BIOL	2202	General Botany	4
CHEM	2202	Organic Chemistry II	4
Liberal Studies Requirement			3
Liberal Studies Requirement			3
Liberal Studies Requirement			3
			17

JUNIOR FIRST SEMESTER

BIOL	3306	Fundamentals of Ecology	4
BIOL	3380	Genetics	4
Liberal Studies Requirement			3
Liberal Studies Requirement			3
			14

JUNIOR SECOND SEMESTER

BIOL	3368	Animal Physiology	4
-or-			
BIOL	3370	Plant Physiology	4
BIOL	3390	Molecular Biotechnology	4
BIOL elective			4
Free elective			4
			16

SENIOR FIRST SEMESTER

BIOL elective			4
BIOL elective			4
Free elective			3
Free elective			3
Free elective			3
			17

SENIOR SECOND SEMESTER

BIOL elective			4
BIOL elective			4
BIOL	4485	Senior Seminar	2
Liberal Studies Requirement			3
Liberal Studies Requirement			3
			16

MINOR IN BIOLOGY ..... 24 sem. hrs.
Required courses (16 hrs.)

BIOL	1105	Biological Principles I	4
BIOL	1106	Biological Principles II	4
BIOL	2202	General Botany	4
BIOL	2203	General Zoology	4

Electives (8 hrs.)
Students may choose from any biology course of level 1199 or higher.

BACHELOR OF ARTS IN EDUCATION: SPECIALIZATION IN BIOLOGY

GRADES 9-ADULT ..... 128 sem. hrs.
Biology Curriculum *(see below)* ..... 48 sem. hrs.
Liberal Studies Requirements ..... 33 sem. hrs.
(See "Degree Requirements" for LSRs not completed through the major)
Professional Education Courses ..... 33 sem. hrs.
Free Electives ..... 14 sem. hrs.

• Biology Curriculum ..... 48 sem. hrs.
Required courses (48 hrs.)

BIOL	1105	Biological Principles I	4
BIOL	1106	Biological Principles II	4
BIOL	2202	General Botany	4
BIOL	2203	General Zoology	4
BIOL	3306	Fundamentals of Ecology	4
BIOL	3380	Genetics	4
CHEM	1105	Chemical Principles I	5
CHEM	1106	Chemical Principles II	4
CHEM	1113	Practical Scientific Stat. with a Spreadsheet	1
GEOL	1102	Historical Geology	4
MATH	1112	College Algebra (or higher)	3
PHYS	1101	Introduction to Physics	4
PHSC	4431	Methods and Materials in Teaching Science	3

• Professional Education ..... 33 sem. hrs.

EDUC	2200	Intro. to Education	3
EDUC	2201	Instructional Technology	3
EDUC	2202	Human Growth and Development	3
EDUC	2202L	Laboratory - Clinical I	1
EDUC	3331	Reading in Content Areas	3
EDUC	3351	Human Exceptionalities & Cultural Diversity	3
EDUC	3351L	Laboratory - Clinical II	1
EDUC	3352	Educational Psychology	3
EDUC	3352L	Laboratory - Clinical II	1
EDUC	3395	Second. Classroom Org. & Practices	4
EDUC	4495	Secondary Student Teaching/Clinical III	8

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

BIOL	1105	Biological Principles I	4
MATH	1115	Trigonometry	3
SPCH	1100	Intro to Speech	3
ENGL	1104	Written English I	3
INFO	1100	Computer Concepts (may test out)	3
			16

FRESHMAN SECOND SEMESTER

BIOL	1106	Biological Principles II	4
ENGL	1108	Written English II	3
EDUC	2200	Intro to Education	3
L.S. CIV			3
L.S. ART			3
			16

SOPHOMORE FIRST SEMESTER

CHEM	1105	Chemical Principles I	5
PHYS	1101	Introduction to Physics	4
EDUC	2201	Instructional Technology	3
BIOL	2203	Zoology	4
			16

SOPHOMORE SECOND SEMESTER

CHEM	1106	Chemical Principles II	4
CHEM	1113	Prac Scientific Stats	1
EDUC	2202	Human Growth & Dev	3
EDUC	2202L	Human Growth & Dev Clin II	1
PHYS	1102	Introduction to Physics II	4
BIOL	2202	General Botany	4
			17

JUNIOR FIRST SEMESTER

BIOL	3306	Fundamentals of Ecology	4
GEOL	1101	Physical Geology	4
EDUC	3331	Reading in Content Area	3
L.S. HUM			3
L.S. CIV			3
			17

JUNIOR SECOND SEMESTER

GEOL	1102	Historical Geology	4
PHSC	4431	Methods & Materials	3
EDUC	3351&CLIN	Human Excep & Cul Diver	4
EDUC	3352&CLIN	Educational Psychology	4
Elective			3
			18

SENIOR FIRST SEMESTER

BIOL	3380	Genetics	4
PHYS	2202	Astronomy (odd yrs)	4
L.S. HUM			3
L.S. CIV			3
L.S. ART			3
			17

SENIOR SECOND SEMESTER

EDUC	3395	Secondary Classroom Org	4
EDUC	4495	Student Teaching Clinical	8
			12

CHEMISTRY

The chemistry program's mission is to help students gain a fundamental knowledge of modern chemistry, including the ability to apply computer science, mathematics, biology and physics to the field. The program strives to foster excellent oral and written communication skills. With small class sizes, innovative teaching approaches, and hands-on access to modern, research-quality instrumentation, students can develop the analytical, problem-solving and teamwork skills necessary to successfully pursue science-based careers. A student completing the B.S. degree with a major in chemistry will be competitive for graduate study in chemistry or chemical engineering, laboratory positions in the chemical industry, pharmaceutical industry or government agencies, or application to law school. By electing a few additional biology classes, students completing a B.S. degree in chemistry will be prepared for application to a variety of professional and graduate schools, including medical school, dental school, veterinary school, pharmacy school, physical therapy programs, toxicology, pharmaceutical science and forensic science graduate programs

Programs available for students who wish to specialize in chemistry include:

1.) The B.S. in Chemistry provides a well-balanced program of courses in the major fields of chemistry, as well as mathematics and physics. A student completing this program will be a competitive candidate for graduate study or positions in industry or government agencies.
2.) The B.S. in Chemistry with an emphasis in biotechnology provides chemistry majors with an additional grounding in biology and prepares students for professional schools and

graduate study in forensic science and pharmaceutical sciences.

3.) The B.A. in Education with a specialization in chemistry equips the graduate to teach chemistry in any secondary school or to pursue graduate studies in science education.

BACHELOR OF SCIENCE IN CHEMISTRY ..... 128 sem. hrs.
Chemistry Curriculum *(see below)* ..... **67 sem. hrs.***
Liberal Studies Requirements ..... **33 sem. hrs.**
(See "Degree Requirements" for LSRs not completed through the major)
Free Electives ..... **28 sem. hrs.***

**Choosing higher-credit hour alternatives in the major curriculum reduces the minimum number of free elective credit hours required to reach 128 semester hours.*

- **Chemistry Curriculum ..... 67 sem. hrs.**

Required courses (67 hrs.)

CHEM	1105	Chemical Principles I	5
CHEM	1106	Chemical Principles II	4
CHEM	1113	Practical Scientific Stat. with a Spreadsheet	1
CHEM	2201	Organic Chemistry I	4
CHEM	2202	Organic Chemistry II	4
CHEM	2205	Analytical Chemistry	4
CHEM	2215	Intermediate Instrumental Analysis	4
CHEM	3301	Physical Chemistry I	4
CHEM	3302	Physical Chemistry II	4
CHEM	4405	Advanced Integrated Laboratory	7
CHEM	4450	Advanced Inorganic Chemistry	3
CHEM	4455	Advances in Modern Chemistry	3
BIOL	3360	Biochemistry	4
PHYS	1101/02	Introduction to Physics I, II	8
-or-			
PHYS	1105/06	Principles of Physics I, II	10
MATH**	1185	Applied Calculus I	4
-or-			
MATH**	1190	Calculus I	4
MATH	1186	Applied Calculus II	4
-or-			
MATH	3315	Calculus II	4

*** Students who do not meet the prerequisites for MATH 1185 or 1190 will be required to take MATH 1112 and/or MATH 1115.*

- **Additional requirements for Biotechnology Emphasis ..... 20 sem. hrs.**

BIOL	1105	Biological Principles I	4
BIOL	1106	Biological Principles II	4
BIOL	3380	Genetics	4
BIOL	3390	Molecular Biotechnology	4
MATH	1113	Applied Statistics	4

MODEL SCHEDULE

Chemistry (B.S.) Math ACT 21-22***

FRESHMAN FIRST SEMESTER

CHEM	1105	Chemical Principles I	5
MATH	1112	College Algebra	3
ENGL	1104	Written English I	3
SPCH	1100	Intro. To Speech Comm.	3
Elective			4
			18

FRESHMAN SECOND SEMESTER

CHEM	1106	Chemical Principles II	4
CHEM	1113	Practical Scientific Stats	1
MATH	1115	Trigonometry	3
ENGL	1108	Written English II	3
L.S./Elective			4
			15

SOPHOMORE FIRST SEMESTER

CHEM	2201	Organic Chemistry I	4
CHEM	2205	Analytical Chemistry	4
MATH	1185	Applied Calculus I	4
PHYS	1101	Intro. to Physics I	4
			16

SOPHOMORE SECOND SEMESTER

CHEM	2202	Organic Chemistry II	4
CHEM	2215	Intermed. Instrum. Analysis	4
PHYS	1102	Introduction to Physics II	4
MATH	1186	Applied Calculus II	4
			16

JUNIOR FIRST SEMESTER

CHEM	3301	Physical Chemistry I	4
CHEM	4405	Advanced Integrated Lab	2
L.S./Elective			3
L.S./Elective			3
L.S.			3
			15

JUNIOR SECOND SEMESTER

BIOL	3360	Biochemistry	4
CHEM	3302	Physical Chemistry	4
CHEM	4405	Advanced Integrated Lab	2
L.S./Elective			3
L.S.			3
			16

SENIOR FIRST SEMESTER

CHEM	4450	Advanced Inorganic Chem	3
CHEM	4405	Advanced Integrated Lab	2
L.S./Elective			3
L.S./Elective			3
L.S./Elective			3
L.S.			3
			17

SENIOR SECOND SEMESTER

CHEM	4455	Advances in Modern Chem	3
CHEM	4405	Advanced Integrated Lab	1
L.S./Elective			3
L.S.			3
L.S./Elective			3
L.S./Elective			3
			15

Note: Math ACT requirements may be satisfied by COMPASS score equivalents.

****Note: Students with ACT Math less than 21 will need an extra year to take developmental or other prerequisite Math courses and Chem 1101 before beginning the model schedule listed above.*

MODEL SCHEDULE

Chemistry (B.S.) Math ACT 23-Up***

FRESHMAN FIRST SEMESTER

CHEM	1105	Chemical Principles I	5
MATH	1115	Trigonometry (or higher***)	3
ENGL	1104	Written English I	3
SPCH	1100	Intro. To Speech Communication	3
Elective			4
			18

FRESHMAN SECOND SEMESTER

CHEM	1106	Chemical Principles II	4
CHEM	1113	Practical Scientific Stats	1
MATH	1185	Applied Calculus I (or 1190)	4
ENGL	1108	Written English II	3
L.S./Elective			4
			16

SOPHOMORE FIRST SEMESTER

CHEM	2201	Organic Chemistry I	4
CHEM	2205	Analytical Chemistry	4
MATH	1186	Applied Calculus II (or 3315)	4
PHYS	1105	Principles of Physics I (or 1101)	4
			16

SOPHOMORE SECOND SEMESTER

CHEM	2202	Organic Chemistry II	4
CHEM	2215	Intermediate Instrumental Analysis	4
PHYS	1106	Principles of Physics II (or 1102)	4
L.S./Elective			3
			15

JUNIOR FIRST SEMESTER

CHEM	3301	Physical Chemistry I	4
CHEM	4405	Advanced Integrated Lab	2
L.S./Elective			3
L.S./Elective			3
L.S.			3
			15

JUNIOR SECOND SEMESTER

BIOL	3360	Biochemistry	4
CHEM	3302	Physical Chemistry II	4
CHEM	4405	Advanced Integrated Lab	2
L.S./Elective			3
L.S.			3
			16

SENIOR FIRST SEMESTER

CHEM	4450	Advanced Inorganic Chem	3
CHEM	4405	Advanced Integrated Lab	2
L.S./Elective			3
L.S./Elective			3
L.S./Elective			3
L.S.			3
			17

SENIOR SECOND SEMESTER

CHEM	4455	Advances in Modern Chem	3
CHEM	4405	Advanced Integrated Lab	1
L.S./Elective			3
L.S.			3
L.S./Elective			3
L.S./Elective			3
			15

Note: Math ACT requirements may be satisfied by COMPASS score equivalents.

****Note: Students with ACT Math higher than 23 should start in the first semester with the highest math course they can place into, which may be Applied Calculus I (ACT Math 24) or Calculus I (ACT Math 25). This will preserve more options for minors and possible double majors.*

MINOR IN CHEMISTRY ..... 22 sem. hrs

Required courses (22 hrs.)

CHEM	1105	Chemical Principles I	5
CHEM	1106	Chemical Principles II	4
CHEM	1113	Practical Scientific Stat. with a Spreadsheet	1
CHEM	2201	Organic Chemistry I	4
CHEM	2202	Organic Chemistry II	4
CHEM	2205	Analytical Chemistry	4
-or-			
CHEM	2215	Intermediate Instrumental Analysis	4

BACHELOR OF ARTS IN EDUCATION: SPECIALIZATION IN CHEMISTRY GRADES 9-ADULT ..... 128 sem. hrs.

Chemistry Curriculum (see below) ..... 38 sem. hrs.*
Liberal Studies Requirements ..... 33 sem. hrs.
(See "Degree Requirements" for LSRs not completed through the major)
Professional Education Courses ..... 33 sem. hrs.
Free Electives ..... 24 sem. hrs.*

**Choosing higher-credit hour alternatives in the chemistry curriculum reduces the minimum number of free elective credit hours required to reach 128 semester hours.*

• **Chemistry Curriculum** ..... 38 sem. hrs.
Required courses (38 hrs).

CHEM	1105	Chemical Principles I	5
CHEM	1106	Chemical Principles II	4
CHEM	1113	Practical Scientific Stat. with a Spreadsheet	1
CHEM	2201	Organic Chemistry I	4
CHEM	2205	Analytical Chemistry	4
CHEM	3301	Physical Chemistry I	4
CHEM	4405	Advanced Integrated Laboratory	1-2
MATH	**1185	Applied Calculus I	4
-or-			
MATH	**1190	Calculus I	4
PHYS	1101/02	Introduction to Physics I, II	8
-or -			
PHYS	1105/06	Principles of Physics I, II	10
PHSC	4431	Methods and Materials in Teaching Science	3

***Students who do not meet the prerequisites for MATH 1185 or 1190 will be required to take MATH 1112 and/or MATH 1115. All courses in the specialization must be completed prior to admission to Secondary Student Teaching/Clinical III.*

• **Professional Education** ..... 33 sem. hrs.

EDUC	2200	Intro. to Education	3
EDUC	2201	Instructional Technology	3
EDUC	2202	Human Growth and Development	3
EDUC	2202L	Laboratory - Clinical I	1
EDUC	3331	Reading in the Content Areas	3
EDUC	3351	Human Exceptionalities & Cul. Diversity	3
EDUC	3351L	Laboratory - Clinical II	1
EDUC	3352	Educational Psychology	3
EDUC	3352L	Laboratory - Clinical II	1
EDUC	3395	Second. Classroom Org. & Practices	4
EDUC	4495	Secondary Student Teaching/Clinical III	8

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

CHEM	1105	Chemical Principles	5
MATH	1115	Trigonometry	3
SPCH	1100	Intro to Speech	3
ENGL	1104	Written English I	3
INFO	1100	Computer Concepts*	3
			17

FRESHMAN SECOND SEMESTER

CHEM	1106	Chemical Principles II	4
CHEM	1113	Practical Scientific Stats	1

ENGL	1108	Written English II	3
EDUC	2200	Introduction to Education	3
MATH	1185/1190	Applied Calc I/Calculus I	4
L.S. CIV			3
			18

SOPHOMORE FIRST SEMESTER

CHEM	2201	Organic Chemistry	4
PHYS	1101	Introduction to Physics	4
EDUC	2201	Instructional Technology	4
BIOL	1105	Biological Principles I	4
			16

SOPHOMORE SECOND SEMESTER

PHYS	1102	Introduction to Physics	4
EDUC	2202	Human Growth & Dev	3
EDUC	2202L	Human Growth & Dev Clin II	1
GEOL	1101	Physical Geology	4
BIOL	1106	Biological Principles II	4
			16

JUNIOR FIRST SEMESTER

CHEM	2205	Analytical Chemistry	4
EDUC	3331	Reading in Content Area	3
PHYS	2202	Astronomy (odd yrs)	4
L.S. ARTS			3
L.S. HUM			3
			17

JUNIOR SECOND SEMESTER

PHSC	4431	Methods & Materials	3
EDUC	3351&CLIN	Human Excep & Cult Div	4
EDUC	3352&CLIN	Educational Psychology	4
GEOL	1102	Historical Geology	4
L.S. CIV			3
			18

SENIOR FIRST SEMESTER

CHEM	3301	Physical Chemistry	3
CHEM	4405	Advanced Integrated Lab	1
L.S. HUM			3
L.S. CIV			3
L.S. ART			3
ELECTIVE			3
			16

SENIOR SECOND SEMESTER

EDUC	3395	Secondary Classroom Org	4
EDUC	4495	Student Teaching Clinical	8
			12

FORENSIC SCIENCE

See also Forensic Science, under Interdisciplinary Programs

GENERAL SCIENCE

(Teaching Specialization Only)

A general science specialization for grades 5-adult is offered for the B.A. in Education degree, in conjunction with the School of Education. This specialization is typically chosen to accompany one of the discipline-based science specializations, such as the biology, chemistry or physics specialization.

BACHELOR OF ARTS IN EDUCATION: SPECIALIZATION IN GENERAL SCIENCE GRADES 5-ADULT ..... 128 sem. hrs.

General Science Curriculum (see below) ..... 40 sem. hrs.
Liberal Studies Requirements ..... 36 sem. hrs.
(See "Degree Requirements" for LSRs not completed through the major)
Professional Education Courses ..... 33 sem. hrs.
Free Electives ..... 19 sem. hrs.

• **General Science Curriculum ..... 40 sem. hrs.**
Required Courses (40 hrs.)

BIOL	1105	Biological Principles I	4
BIOL	1106	Biological Principles II	4
CHEM	1105	Chemical Principles I	5
CHEM	1106	Chemical Principles II	4
CHEM	1113	Practical Scientific Stat. with a Spreadsheet	1
GEOL	1101	Physical Geology	4
GEOL	1102	Historical Geology	4
PHYS	1101	Introduction to Physics I	4
PHYS	1102	Introduction to Physics II	4
PHYS	2202	Astronomy	3
PHSC	4431	Methods and Materials in Teaching Science	3

**All courses must be completed prior to admission to Secondary Student Teaching/Clinical III.*

• **Professional Education ..... 33 sem. hrs.**

EDUC	2200	Intro. to Education	3
EDUC	2201	Instructional Technology	3
EDUC	2202	Human Growth and Development	3
EDUC	2202L	Laboratory - Clinical I	1
EDUC	3331	Reading in the Content Areas	3
EDUC	3351	Human Exceptionalities Cultural Diversity	3
EDUC	3351L	Laboratory - Clinical II	1
EDUC	3352	Educational Psychology	3
EDUC	3352L	Laboratory - Clinical II	1
EDUC	3395	Second. Classroom Org. & Practices	4
EDUC	4495	Secondary Student Teaching/Clinical III	8

MODEL SCHEDULE

(see B.A. Biology, Chemistry and Physics)

GEOLOGY

Geology is offered as a fulfillment of the Liberal Studies requirement and as an integral part of various science-oriented teaching fields.

PRE-PROFESSIONAL STUDIES

See also Pre-Professional Studies under Special Academic Programs

Department of Computer Science, Mathematics, and Physics

■ Dr. Dwight Harris, Chair (1991)
328b Hunt Haught Hall / (304) 367-4714
dharris@fairmontstate.edu

FACULTY

BAKER, RANDALL (1986)
Assistant Professor of Computer Science

DUNLEVY, JAMES O. (1965-69; 1972)
Associate Professor of Mathematics

GOODWIN, SUSAN (1989)
Professor of Mathematics

HANSEN, GALEN J. (1994)
Professor of Physics

HARRIS, MELANIE J. ROWE (1971)
Professor of Mathematics

HAYNES, D. STEPHEN (1970)
Professor of Physics

LARUE, THEODORE K. (1982)
Assistant Professor of Computer Science

MARTIN, ASHLEY M. (1980)
Professor of Physics

RIESEN, JOSEPH (1992)
Professor of Mathematics
Graduate Faculty

TOBIN, DONALD L. JR. (2003)
Assistant Professor of Computer Science

WANG, YI (2003)
Assistant Professor of Mathematics

COMPUTER SCIENCE

Computer Science is the study and implementation of algorithmic processes that describe and transform information. The computer science program at FSU offers two majors: one in Computer Science and a new one in Computer Security. Because of the diversity of application areas, and the goal of computing benefiting mankind, computer scientists should be broadly educated and will receive a well-balanced curriculum in mathematics and the humanities.

Computer Science is a broad discipline that encompasses many areas of specialization, with an ever-growing array of opportunities. Graduates in this area can find employment in a wide spectrum of commercial companies or government agencies, as well as be competitive for graduate school and advanced study. Personal niches can be found in software or system development, system administration, computer security, or any one of a number of new and developing computing technologies. Students may complete the B.S. in Computer Science in preparation for immediate employment in a software development position or in preparation for graduate studies. Because of rapid changes in this field, requirements are designed to provide students with a fundamental understanding of those concepts of computer science which will enable them to adapt to any current computing environment.

NOTES: Students should attempt to complete COMP 1102 and 1108, and MATH 1170 and 2216 by the end of their freshman year. Students who already have credit for MATH 1115 and 1190 may use MATH 2212 as an alternative to MATH 1170.

BACHELOR OF SCIENCE IN COMPUTER SCIENCE ..... **128 sem. hrs.**
Computer Science Curriculum *(see below)* ..... **50 sem. hrs.**
Liberal Studies Requirements ..... **41 sem. hrs.**
(See "Degree Requirements" for LSRs not completed through the major)
Free Electives ..... **37 sem. hrs.**

• Computer Science Curriculum ..... **50 sem. hrs.**
Required courses (50 hrs.)

COMP	1102	Principles of Programming I	3
COMP	1108	Principles of Programming II	3
COMP	2200	Principles of Programming III	3
COMP	2201	Machine Organization	3
COMP	2215	Software Design and Development with Ada	3
COMP	2230	Java and Internet Applications	3
COMP	2270	Data Structures, Algorithms and OOP I	3
COMP	3300	Computer Graphics	3
COMP	3310	Artificial Intelligence	3
COMP	3340	Operating Systems	3
COMP	4410	Database Management	3
COMP	4420	Selected Advanced Topics	
-or-			
COMP	4421	Computer Science Special Topics	3
MATH	1170	Introduction to Analysis	4
MATH	1190	Calculus I	4
MATH	2200	Mathematical Logic	3
MATH	2216	Discrete Mathematics	3

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

COMP	1102	Principles of Programming I	3
ENGL	1104	Written English I	3
MATH	1170	Mathematical Analysis	4
INFO	1100	Comp. Concepts & Appls.	3
Liberal Studies Civilization			3
			16

FRESHMAN SECOND SEMESTER

COMP	1108	Principles of Programming II	3
MATH	1190	Calculus I	4
ENGL	1108	Written English II	3
Liberal Studies Human Interaction			3
Minor/elective			3
			16

SOPHOMORE FIRST SEMESTER

COMP	2200	Principles of Programming III	3
COMP	2215	Software Design with ADA	3
SPCH	1100	Intro. to Speech Communication	3
MATH	2216	Discrete Mathematics	3
Liberal Studies Science			4
			16

SOPHOMORE SECOND SEMESTER

COMP	2201	Machine Organization	3
COMP	2270	Data Structures OOPI	3
MATH	2200	Mathematical Logic	3
Liberal Studies Science			4
Minor/elective			3
			17

JUNIOR FIRST SEMESTER

COMP	3370	Data Structures OOPII	3
COMP	3300	Computer Graphics	3
Liberal Studies Artistic			3
Liberal Studies Civilization			3
Minor/elective			6
			18

JUNIOR SECOND SEMESTER

COMP	2230	Java & Internet Applications	3
COMP	3310	Artificial Intlligence	3
Liberal Studies Civilization			3
Minor/elective			6
			15

SENIOR FIRST SEMESTER

COMP	4410	Database Management	3
Liberal Studies Human Interaction			3
Liberal Studies Civilization			3
Minor/elective			9
			18

SENIOR SECOND SEMESTER

COMP	4420	Selected Adv. Topics	3
Liberal Studies Artistic			3
Minor/elective			10
			16

BACHELOR OF SCIENCE IN COMPUTER SECURITY ..... 128 sem. hrs.

Computer Security Curriculum *(see below)* ..... 62 sem. hrs.
Liberal Studies Requirements ..... 41 sem. hrs.
(See "Degree Requirements" for LSRs not completed through the major)
Free Electives ..... 25 sem. hrs.

• **Computer Security Curriculum** ..... 62 sem. hrs.
Required Courses (62 hrs.)

COMP	1102	Principles of Programming I	3
COMP	1108	Principles of Programming II	3
COMP	2200	Principles of Programming III	3
COMP	2201	Machine Organization	3
COMP	2220	Fundamentals of Computer Security	3
COMP	2230	Java and Internet Applications	3
COMP	2270	Data Structures, Algorithms and OOP I	3
COMP	3340	Operating Systems	3
COMP	3380	Cryptography in Computer Security	4
COMP	3390	Network Security Technology	4
COMP	3395	Legal & Ethical Issues in Computer Security	3
COMP	4410	Database Management	3
COMP	4415	Vulnerability Assessment	4
COMP	4495	Computer Security Internship	3
INFO	2250	Networking Fundamentals	3
MATH	1170	Introduction to Analysis	4
MATH	1190	Calculus I	4
MATH	2200	Mathematical Logic	3
MATH	2216	Discrete Mathematics	3

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

COMP	1102	Principles of Programming I	3
ENGL	1104	Written English I	3
MATH	1170	Introduction to Analysis	4
INFO	1100	Comp. Concepts & Appls	3
Liberal Studies Human Interaction			3
			16

FRESHMAN SECOND SEMESTER

COMP	1108	Principles of Programming II	3
MATH	1190	Calculus I	4
ENGL	1108	Written English II	3
MATH	2200	Mathematical Logic	3
Liberal Studies Human Interaction			3
			16

SOPHOMORE FIRST SEMESTER

COMP	2200	Principles of Programming III	3
INFO	2250	Networking Fundamentals	3
SPCH	1100	Intro. to Speech Communication	3
MATH	2216	Discrete Mathematics	4
Liberal Studies Science			4
			17

SOPHOMORE SECOND SEMESTER

COMP	2201	Machine Organization	3
COMP	2270	Data Structures OOPI	3
Liberal Studies Science			4
Minor/elective			6
			16

JUNIOR FIRST SEMESTER

COMP	2240	Operating Systems	3
COMP	3320	Fund. of Computer Security	3
COMP	4410	Database Management	3
Minor/elective			3
Liberal Studies Civilization			3
			15

JUNIOR SECOND SEMESTER

COMP	3390	Network Security	4
COMP	3395	Legal & Ethical Issues	3
Liberal Studies Civilization			3
Liberal Studies Artistic			2
Minor/elective			3
			15

SENIOR FIRST SEMESTER

COMP	3380	Cryptography	4
COMP	4415	Vulnerability Assessment	4
COMP	4421	Special Project	3
Minor/elective			3
Minor/elective			2
			16

SENIOR SECOND SEMESTER

COMP	4420	Selected Adv. Topics 1	3
COMP	4495	Computer Security Intern	3
Liberal Studies Civilization			3
Liberal Artistic			3
Minor/elective			5
			17

MINOR IN COMPUTER SCIENCE ..... 19 sem. hrs.
Students may not minor in Computer Science when majoring in Information Systems.

Required Courses (13 hrs.)

COMP	1102	Principles of Programming I	3
COMP	1108	Principles of Programming II	3
COMP	2200	Principles of Programming III	3
MATH	1170	Math Analysis	4

Electives (6 hrs)

COMP	2201	Machine Organization	3
COMP	2215	Software Design and Development with Ada	3
COMP	2230	Java and Internet Applications	3
COMP	2270	Data Structures, Algorithms and OOP I	3

MATHEMATICS

The mathematics program equips students with analytical and problem-solving skills that are applicable to a wide variety of careers and graduate study. The coursework develops students' abilities to apply mathematical methods and ideas to problems in mathematics, sciences, computer science, actuarial science, statistics and virtually any other area of inquiry. Students learn to communicate ideas effectively and to digest new information and concepts independently. Graduates of the mathematics program at Fairmont State work for such diverse employers as the US Census Bureau, the US Navy, banking, manufacturing, chemical, computer and statistics firms.

Students interested in mathematics have the option of selecting one of the following degree programs:

1) the Bachelor of Science degree in Mathematics, as preparation for work in computing or for graduate study in mathematics or computer science.
2) the Bachelor of Arts in Education degree with a 5-Adult comprehensive specialization as preparation for teaching mathematics. Completion of a B.A. in Education with Specialization in Mathematics Grades 5-Adult results in concurrent completion of a B.S. in Mathematics. Students pursuing these degrees are advised in the math department. *NOTE: MATH 1190, 3315, 3316, and 2212 are required for both degrees and should be completed early in the program.*
3) the Mathematics 5-9 teaching specialization can be added to an Elementary Education degree or as a second specialization with a B.A. in Education.

It is expected that incoming students in this field will present a minimum of four units of high school mathematics, including two units of algebra, one unit of integrated geometry (or equivalent), and one advanced unit such as calculus. Students without this background may be required to complete appropriate lower-level courses in addition to the stated requirements. Students should consult with their advisor concerning credit for prerequisites and special examinations for course credit. All students majoring in mathematics must complete a minor. Students who are receiving a teaching certificate generally use Education as their minor.

BACHELOR OF SCIENCE IN MATHEMATICS ..... 128 sem. hrs.
Mathematics Curriculum *(see below)* ..... 43 sem. hrs.*
Liberal Studies Requirements ..... 37 sem. hrs.
(See "Degree Requirements" for LSRs not completed through the major)
Free Electives/Minor ..... 48 sem. hrs.*
**Choosing higher-credit hour alternatives in the mathematics curriculum reduces the minimum number of free elective credit hours required to reach 128 semester hours.*

• **Mathematics Curriculum** ..... 43 sem. hrs.
Required Courses (34 hrs.)

MATH	1190	Calculus I	4
MATH	2200	Mathematical Logic	3
MATH	2212	Sets, Relations and Functions	3
MATH	3315	Calculus II	4
MATH	3316	Calculus III	4
MATH	3335	Probability and Statistics	3
MATH	3361	Abstract Algebra	3
MATH	3362	Linear Algebra	3
COMP	1102	Principles of Programming I	3

Any one of the following science courses:

CHEM	1101	General Chemistry I	4
CHEM	1105	Chemical Principles I	5
PHYS	1101	Introduction to Physics I	4
PHYS	1105	Principles of Physics I	5

Math Electives (9 hrs)
(Choose three courses from Groups A and B. At least one course must be chosen from Group A.)

Group A:

MATH	3375	Topology	3
MATH	3391	Real Analysis	3

Group B:

MATH	2206	Introduction to the Theory of Numbers	3
MATH	2216	Introduction to Discrete Mathematics	3
MATH	3342	Numerical Analysis	3
MATH	3372	Modern Geometry	3
MATH	4401	Differential Equations	3

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

MATH	1190	Calculus I	4
ENGL	1104	Written English I	3
INFO	1100	Comp. Con. & Apps.	3
Liberal Studies - Culture/Civilization Exploration elective			3
Liberal Studies - Society/Human Interaction election			3
			16

FRESHMAN SECOND SEMESTER

MATH	3315	Calculus II	4
ENGL	1108	Written English II	3
COMP	1102	Principles of Program I	3
SPCH	1100	Introduction to Speech Communications	3
MATH	1113	Applied Statistics or Elective	3-4
			16-17

SOPHOMORE FIRST SEMESTER

MATH	3316	Calculus III	4
MATH	2212	Sets, Relations & Functions	3
Liberal Studies Civilization			3
Science I *(from list above)*			4-5

Minor Elective 3
17-18

SOPHOMORE SECOND SEMESTER

MATH 2200 Mathematical Logic 3
MATH 3335 Probability & Statistics 3
Liberal Studies Science 4-5
Liberal Studies Civilization 3
Minor Elective 3
16-17

JUNIOR FIRST SEMESTER

MATH 3362 Linear Algebra 3
MATH Elective 3
Minor Elective 3
Liberal Studies Art, Music or Theatre Appreciation 3
Minor Electives 5-6
17-18

JUNIOR SECOND SEMESTER

MATH 3361 Abstract Algebra 3
Minor Elective 3
Liberal Studies - Culture/Civilization Exploration elective 3
-or-
Liberal Studies - Society/Human Interaction elective
Liberal Studies - Artistic/Creative/Interdisciplinary elective 3
Minor Lib/Liberal Studies General elective 3
15

SENIOR FIRST SEMESTER

MATH Elective 3
Minor Elective 3
Minor Elective 9-12
15-18

SENIOR SECOND SEMESTER

MATH 3375 Topology 3
-or-
MATH 3391 Real Analysis 3
Minor Elective 12
15

MINOR IN MATHEMATICS ..... 24 sem. hrs.

Required Courses (12 hrs.)

MATH 1190 Calculus I 4
MATH 3315 Calculus II 4
MATH 3316 Calculus III 4

Electives (12 hrs.)
(Choose four courses from the following list. At least two choices must be at the 3300 level or above.)

MATH 2200 Mathematical Logic 3
MATH 2206 Introduction to the Theory of Numbers 3
MATH 2212 Sets, Relations and Functions 3
MATH 2216 Introduction to Discrete Mathematics 3
MATH 3335 Probability and Statistics I 3
MATH 3342 Numerical Analysis 3
MATH 3361 Abstract Algebra 3
MATH 3362 Linear Algebra 3
MATH 3372 Modern Geometry 3
MATH 3375 Topology 3
MATH 3391 Real Analysis 3
MATH 4401 Differential Equations 3

BACHELOR OF ARTS IN EDUCATION: SPECIALIZATION IN MATHEMATICS GRADES 5-ADULT ..... 128 sem. hrs.

Mathematics Curriculum *(see below)* ..... 46 sem. hrs.*
Liberal Studies Requirements ..... 37 sem. hrs.
(See "Degree Requirements" for LSRs not completed through the major)
Professional Education Courses ..... 33 sem. hrs.
Free Electives ..... 12 sem. hrs.*

**Choosing higher-credit hour alternatives in the mathematics curriculum reduces the minimum number of free elective credit hours required to reach 128 semester hours.*

• **Mathematics Curriculum ..... 46 sem. hrs.**

Required Courses (43 hrs.)

MATH 1190 Calculus I 4
MATH 2200 Mathematical Logic 3
MATH 2212 Sets, Relations and Functions 3
MATH 2216 Introduction to Discrete Mathematics 3
MATH 3315 Calculus II 4
MATH 3316 Calculus III 4
MATH 3335 Probability and Statistics 3
MATH 3361 Abstract Algebra 3
MATH 3362 Linear Algebra 3
MATH 3372 Modern Geometry 3
MATH 4431 Methods & Materials of Teaching Math 3
COMP 1102 Prin. of Programming I 3

Any one of the following science courses:

CHEM 1101 General Chemistry I 4
CHEM 1105 Chemical Principles I 5
PHYS 1101 Introduction to Physics I 4
PHYS 1105 Principles of Physics I 5

Electives (3 hrs.)
(Choose one of the following.)

MATH 3375 Topology 3
MATH 3391 Real Analysis 3

**All courses must be completed prior to admission to Secondary Student Teaching/Clinical III.*

• **Professional Education ..... 33 sem. hrs.**

EDUC 2200 Intro. to Education 3
EDUC 2201 Instructional Technology 3
EDUC 2202 Human Growth and Development 3
EDUC 2202L Laboratory - Clinical I 1
EDUC 3331 Reading in the Content Areas 3
EDUC 3351 Human Exceptionalities & Cultural Diversity 3
EDUC 3351L Laboratory - Clinical II 1
EDUC 3352 Educational Psychology 3
EDUC 3352L Laboratory - Clinical II 1
EDUC 3395 Second. Classroom Org. & Practices 4
EDUC 4495 Secondary Student Teaching/Clinical III 8

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

MATH 1190 Calculus I 4
ENGL 1104 Written English I 3
SPCH 1100 Intro. to Speech Comm. 3
INFO 1100 Comp. Conc. & Appls. 3
L.S. Soc/Hum 3
16

FRESHMAN SECOND SEMESTER

MATH	3315	Calculus II	4
ENGL	1108	Written English II	3
COMP	1102	Principles of Prog. I	3
EDUC	2200	Intro. to Education	3
MATH	1113 or Elective		3
			16

SOPHOMORE FIRST SEMESTER

MATH	3316	Calculus III	4
MATH	2216	Discrete	3
EDUC	2201	Instructional Technology	3
L. S. Culture/Civilization			3
Science *(from list above)*			4-5
			16-17

SOPHOMORE SECOND SEMESTER

MATH	3335	Probability & Stats	3
L. S. Culture/Civilization			3
EDUC	2202	Human Growth & Dev.	3
EDUC	2202L	Lab	1
L. S. Sci			4-5
Elective			3
			17-18

JUNIOR FIRST SEMESTER

MATH	2212	Sets, Relations and Funct.	3
MATH	3362	Linear Alg	3
-or-			
MATH	3372	Geometry	3
EDUC	3331	Reading in Content Area	3
L.S. Soc/Hum			3
Electives			6
			18

JUNIOR SECOND SEMESTER

MATH	3361	Abstract Algebra	3
L.S. Civ.			3
L.S. Creataive Expression			3
MATH	3375/3391	Topology/Real Analysis	3
Electives			3-4
			15-16

SENIOR FIRST SEMESTER

MATH	4431	Math Methods	3
MATH	3362	Linear Alg	3
-or-			
MATH	3372	Geometry	3
L.S. Creative Expression			3
EDUC	3351 & Lab	Human Exc. & Cult. Div.	4
EDUC	3352 & Lab	Educational Psychology	4
			17

SENIOR SECOND SEMESTER

EDUC	3395	Classroom Org. & Pract	4
EDUC	4495	Student Teaching	8
			12

MATHEMATICS TEACHING SPECIALIZATION, GRADES 5-9 ..... 29 sem. hrs.

This specialization prepares teacher candidates for general mathematics through Algebra I.

Required courses (29 hrs.)

MATH	1112	College Algebra*	3
MATH	1113	Applied Statistics	4
MATH	1115	Trig. and Elementary Functions	3
MATH	1185	Applied Calculus I	4
MATH	2216	Introduction to Discrete Mathematics	3
MATH	2251	Structure of the Real Numbers	3
MATH	2252	Data Analysis and Geometry	3
MATH	3353	Math Methods for Elementary Teachers	3
MATH*	4431	Methods & Materials in Teaching Math	3

** omit if Math ACT greater than or equal to 23*

PHYSICS (MINOR ONLY)

The physics program provides students in science, mathematics, technology, secondary education and various pre-professional programs with an understanding of fundamental concepts and principles that govern the physical universe. Physics students utilize mathematical methods, observation and critical reasoning to describe and analyze relationships between properties of matter and the interactions that cause things to change. The physics program's goal is to provide an environment for the development and application of analytic and problem-solving skills needed for careers and graduate study. Students may earn a minor in physics that complements majors in science, math, computer science and technology. A physics single specialization for grades 9-adult (see below) and a general science specialization (see Department of Biology, Chemistry and Geoscience) for grades 5-adult are also offered for the B.A. in Education degree, in conjunction with the School of Education.

MINOR IN PHYSICS ..... 30 sem. hrs.

Required courses (30 hrs.)

PHYS*	1101/02	Introduction to Physics I, II	8
PHYS	3310	Electricity and Electronics	4
PHYS	3325	Advanced Physics I	4
PHYS	3335	Advanced Physics II	4
PHYS	3340	Special Problems	2
MATH	1185	Applied Calculus I	4
-or-			
MATH	1190	Calculus I	4
-or-			
TECH	2290	Engineering Analysis I	4
MATH	1186	Applied Calculus II	4
-or-			
MATH	3315	Calculus II	4
-or-			
TECH	3300	Engineering Analysis II	4

**PHYS 1105/06 is strongly recommended in place of 1101/02, but not required.*

BACHELOR OF ARTS IN EDUCATION: SPECIALIZATION IN PHYSICS GRADES 9-ADULT ..... 128 sem. hrs.

Physics Curriculum *(see below)* ..... 43 sem. hrs.*
Liberal Studies Requirements ..... 33 sem. hrs.
(See "Degree Requirements" for LSRs not completed through the major)
Professional Education Courses ..... 33 sem. hrs.
Free Electives ..... 19 sem. hrs.*

**Choosing higher-credit hour alternatives in the physics curriculum reduces the minimum number of free elective credit hours required to reach 128 semester hours.*

- **Physics Curriculum** ..... **43 sem. hrs.**
  Required courses (43 hrs.)

CHEM	1101/02	General Chemistry I, II	8
-or-			

CHEM 1105/06 Chemical Principles I, II 9
PHYS 1105/06 Principles of Physics I, II 10
PHYS 2201 Demonstrations in Physics 2
PHYS 3310 Electricity and Electronics 4
PHYS 3325, 3335 Advanced Physics I, II 8
MATH 1185 Applied Calculus I 4
-or-
MATH 1190 Calculus I 4
-or -
TECH 2290 Engineering Analysis I 4
MATH 1186 Applied Calculus II 4
-or-
MATH 3315 Calculus II 4
-or-
TECH 3300 Engineering Analysis II 4
PHSC 4431 Methods and Materials in Teaching Science ... 3

All courses must be completed prior to admission to Secondary Student Teaching/Clinical III. Chemistry 1105/06 is strongly recommended in place of 1101/02, but not required.

• Professional Education ..... 33 sem. hrs.

EDUC 2200 Intro. to Education 3
EDUC 2201 Instructional Technology 3
EDUC 2202 Human Growth and Development 3
EDUC 2202L Laboratory - Clinical I 1
EDUC 3331 Reading in the Content Areas 3
EDUC 3351 Human Exceptionalities & Cultural Diversity 3
EDUC 3351L Laboratory - Clinical II 1
EDUC 3352 Educational Psychology 3
EDUC 3352L Laboratory - Clinical II 1
EDUC 3395 Second. Classroom Org. & Practices 4
EDUC 4495 Secondary Student Teaching/Clinical III 8

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER
CHEM 1105 Chemical Principles I 5
MATH 1115 Trigonometry 3
SPCH 1100 Intro to Speech 3
ENGL 1104 Written English I 3
INFO 1100 Computer Concepts* 3
17

FRESHMAN SECOND SEMESTER
CHEM 1106 Chemical Principles II 4
CHEM 1113 Prac. Scientific Stats 1
ENGL 1108 Written English II 3
EDUC 2200 Introduction to Education 3
MATH 1185/1190 Applied CalcI/Calculus I 4
Liberal Studies Civilization 3
18

SOPHOMORE FIRST SEMESTER
MATH 1186/3315 Applied Calc II/Calculus II 4
PHYS 1105 Principles of Physics I 5
EDUC 2201 Instructional Technology 3
BIOL 1105 Biological Principles I 4
Liberal Studies Civilization 3
18

SOPHOMORE SECOND SEMESTER
PHYS 1106 Principles of Physics II 5
EDUC 2202/2202L Human Growth & Dev & CLIN 4
BIOL 1106 Biological Principles II 4
Liberal Studies Human Interaction 3
16

JUNIOR FIRST SEMESTER
PHYS 3310 Electricity & Electronics 4
PHYS 3325 Advanced Physics I 4
EDUC 3331 Reading in the Content Area 3
GEOL 1101 Physical Geology 4
Liberal Studies Human Interaction 3
18

JUNIOR SECOND SEMESTER
GEOL 1102 Historical Geology 4
EDUC 3351 & CLIN Human Excep & Cul Diver. 4
EDUC 3352 & CLIN Educational Psychology 4
PHSC 4431 Methods & Materials 3
Liberal Studies Artistic 3
18

SENIOR FIRST SEMESTER
PHYS 3335 Advanced Physics II 4
PHYS 2201 Demonstrations in Physics 2
PHYS 2202 Astronomy 4
Liberal Studies Civilization 3
Liberal Studies Artistic 3
15

SENIOR SECOND SEMESTER
EDUC 3395 Secondary Classroom Org. 4
EDUC 4495 Student Teaching Clinical 8
12

Department of Technology

■ Jim Goodwin, Chair
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jgoodwin@fairmontstate.edu

FACULTY

ABBOTT, MELISSA W., CSP (2003)
Assistant Professor of Safety/Environmental Engineering Technology

ALLEN, LARRY C. (2000)
Assistant Professor of Electronic Engineering Technology

BOLYARD, GARY (1984)
Assistant Professor of Technology

FREEMAN, PHILIP M. AIA(2003)
Assistant Professor of Architectural Engineering Technology

MILLER, AUBREY L. (2004)
Assistant Professor of Mechanical Engineering Technology

MORPHEW, KIRK L. (2000)
Associate Professor of Architectural Engineering Technology

MURPHY, KIMBERLY, CSHM, CSP (1991)
Associate Professor of Safety/Environmental Engineering Technology

NICHOLAS, THOMAS II, E.I. (2001)
Assistant Professor of Civil Engineering Technology

RICHARDSON, TIA M., P.E. (1998)
Associate Professor of Architectural/Civil Engineering Technology

STILGENBAUER, TED M. (2000)
Assistant Professor of Civil Engineering Technology

THOMAS, MERLE, JR. (2001)
Assistant Professor of Mechanical Engineering Technology

TURCHIN, RONALD G. (2001)
Assistant Professor of Electronics Engineering Technology

VASSIL, JAMES E., E.I. (2002)
Visiting Assistant Professor of Civil Engineering Technology

ZICKEFOOSE, GARY, P.E. (1984)
Associate Professor of Civil Engineering Technology

AVIATION TECHNOLOGY

The Bachelor of Science in Aviation Technology is offered to students whose career objective is the management and operation of airside activities in the aviation industry. The program provides the graduate with technical competence in an aviation-related career as well as the skills needed to assume supervisory responsibilities. There are several areas of specialization in this degree: Aviation Administration (which has a focus on management), Aviation Administration with a Flight option, and Aviation Maintenance Management. All Aviation Technology students are required to take the Aviation Common Core requirements listed below.

- **Aviation Common Core ..... 27-30 sem. hrs.**

AVMA	3301	Aviation History	3
AVMA	3302	Aviation Law	3
AVMA	3303	Airline Operations	3
AVMA	3304	Aviation Maintenance Management	3
AVMA	3305	General Aviation Operations	3
AVMA	3307	Aviation Safety	3
AVMA	4402	Fiscal Aspects of Aviation Management	3
MANF*	2250	Total Quality and SPC	3
MGMT	2209	Principles of Management	3
MGMT	3390	Human Behavior in Organizations	3

**Not required for the Aviation Maintenance Management Option*

BACHELOR OF SCIENCE IN AVIATION ADMINISTRATION ..... 134 sem. hrs.
Aviation Common Core ..... 30 sem. hrs.
Aviation Admin. Curriculum *(see below)* **..... 88 sem. hrs.**
Liberal Studies Requirements ..... 16 sem. hrs.
(See "Degree Requirements" for LSRs not completed through the major)

This option prepares the student for employment in administrative areas with companies in and related to the aviation industry. Typical positions include airport manager, flight dispatcher, flight scheduler, crew coordinator, air cargo administration, aviation marketing, air traffic controller, and online management. A Flight Option is available within this degree; see details below.

- **Aviation Administration Curriculum ..... 88 sem. hrs.**

Required Courses (79 hrs.)

ACCT	2201	Principles of Accounting	3
AVMA	1100	Aircraft Flight Theory	3
AVMA	1102	Introduction to Air Traffic Control	3
AVMA	2206	Aviation Security	3
-or-			
SPCH	3369	Communications in Organizations	3
AVMA	2210	Aviation Meteorology	3
AVMA	2211	Airport Management	3
AVMA	2213	Airport Planning and Development	3
AVMA	2214	Advanced Air Traffic Control	3
BUSN	3310	Business Statistics	3
COMP	1101	Applied Technical Programming	3
ECON	2200	Economics	3
ENGL	1104	Written English I	3
ENGL	1108	Written English II	3
ENGL	1109	Technical Report Writing	3
MKTG	2204	Principles of Marketing	3
MGMT	4405	Operations Management	3
MATH	1101	Applied Technical Mathematics I	3
MATH	1102	Applied Technical Mathematics II	3
PHED	1100	Physical Education and Wellness	2
PHYS	1101	Introduction to Physics I	4
PHYS	1102	Introduction to Physics II	4
PSYC	1101	Introduction to Psychology	3
SFTY	1100	Safety & Environmental Comp. of Industry	3
SFTY	1150	Safety Mgt. & Concepts in Accident Prev.	3
SOCY	1110	Introductory Sociology	3
SPCH	1100	Intro to Speech Communication	3

Electives (9 hrs.)

Flight Option

Students will substitute the following courses in lieu of AVMA 1100, 2210, and 3399 (Elective) for a Flight Option in the Aviation Administration degree. Flight fees for students to obtain their private, commercial, or instrument license must be paid during the semester in which you enroll in the class.

AVMA	1101	Private Pilot Technology	3
AVMA	2201	Instrument Pilot Technology	3
AVMA	3300	Commercial Pilot Technology	3

MINOR IN AVIATION ADMINISTRATION ..... 21 sem. hrs.

Required Courses (15 hrs.)

AVMA	1100	Aircraft Flight Theory	3
AVMA	1102	Introduction to Air Traffic Control	3
AVMA	2211	Airport Management	3
AVMA	3303	Airline Operations	3
AVMA	3305	General Aviation Operations	3

Electives (6 hrs.)
(Select two courses from the following list.)

AVMA	2213	Airport Planning and Development	3
AVMA	3301	Aviation History	3
AVMA	3302	Aviation Law	3
AVMA	3307	Aviation Safety	3
AVMA	4401	Trends & Current Issues in Aviation	3

MINOR IN AVIATION ADMINISTRATION
(Flight Option) ..... **18 sem. hrs.**
Required Courses (12 hrs.)

AVMA	1101	Private Pilot Technology	3
AVMA	3301	Aviation History	3
AVMA	3302	Aviation Law	3
AVMA	3305	General Aviation Operations	3

Electives (6 hrs.)
(Select two courses from the following list.)

AVMA	2211	Airport Management	3
AVMA	2213	Airport Planning and Development	3
AVMA	2214	Advanced Air Traffic Control	3
AVMA	3303	Airline Operations	3
AVMA	3307	Aviation Safety	3

BACHELOR OF SCIENCE IN AVIATION MAINTENANCE MANAGEMENT ..... **136 sem. hrs.**
Aviation Common Core ..... **27 sem. hrs.**
Aviation Maintenance Management Curriculum *(see below)* ..... **88 sem. hrs.**
Liberal Studies Requirements ..... **21 sem. hrs.**
(See "Degree Requirements" for LSRs not completed through the major)

This option prepares the student for entry-level management positions in the maintenance field with airlines, aviation manufacturers, repair stations, and fixed base operators. All graduates must have obtained their FAA Airframe and Powerplant License. This program is approved by the Federal Aviation Administration and meets the requirements of Federal Aviation Regulation 147.

• Aviation Maintenance Management Curriculum ..... **88 sem. hrs.**
Required Courses ..... **85 sem. hrs.**

AVMT	1101	Intro. to Aviation Maintenance	3
AVMT	1102	Aircraft Regulations and Publications	3
AVMT	1103	Aviation Shop Practices	3
AVMT	1105	Aircraft Utility Systems	3
AVMT	1106	Aircraft Information Systems	3
AVMT	1109	Aircraft Electronics	3
AVMT	2201	Reciprocating Engines and Systems	3
AVMT	2202	Aircraft Sheet Metal Structures	3
AVMT	2203	Reciprocating Engine Maintenance and Return to Service	5
AVMT	2204	Propeller Systems	3
AVMT	2205	Turbine Engines and Systems	3
AVMT	2206	Aircraft Fluid Power Landing Gear Systems	3
AVMT	2207	Turbine Engine Maintenance and Return to Service	3
AVMT	2208	Cabin Atmosphere Control Systems	3
AVMT	2209	Aircraft Flight Control Systems	3
AVMT	2210	Non Metallic Structures	3
AVMA	4404	Advanced Composite Structures	
-or -			
AVMA	4405	Advanced Non-Destructive Testing	3
AVIO	1110	Aircraft Power Generation and Distribution Systems	3
COMP	1101	Applied Technical Programming	3
ECON	2200	Economics	3
ENGL	1109	Technical Report Writing	3
MATH	1101	Applied Technical Mathematics I	3
MATH	1102	Applied Technical Mathematics II	3
PHYS	1101	Introduction to Physics I	4
PHYS	1102	Introduction to Physics II	4
PSYC	1101	Introduction to Psychology	3
SOCY	1110	Introductory Sociology	3

Aviation Elective (3 hrs.)

MINOR IN AVIONICS ..... **20 sem. hrs.**
This minor is restricted to Electronics Engineering Technology Majors.
Required Courses (20 hrs.)

AVIO	1102	Principles of Radio Transmitters & Receivers	3
AVIO	2200	Electronic Flight Management Systems	3
AVIO	2202	Instrument Landing Systems	3
AVIO	2204	Aircraft Navigation Systems	3
AVIO	2206	Aircraft Communication Systems	3
AVIO	2209	Aircraft Pulse and Radar Systems	3
AVIO	2210	FCC License Preparation	2

ENGINEERING TECHNOLOGY

Students working toward the Bachelor of Science in Engineering Technology will be primarily concerned with the practical applications of established scientific and engineering knowledge and methods. A strong background in mathematics and science is recommended for entry into this program. The curriculum, including general education courses in business, the humanities, science and math, emphasizes the relationships of the various disciplines to technological processes in industry.

Applicants for the B.S. degree in Architectural Engineering Technology, Civil Engineering Technology, Electronics Engineering Technology, Mechanical Engineering Technology, and Safety/Environmental Engineering Technology must complete the corresponding A.S. degree, or have graduated from high school with at least a 2.75 grade point average and achieved a minimum ACT composite score of 19 (SAT 910).

Architectural Engineering Technology

The Architectural Engineering Technology program at Fairmont State University is a pre-professional program that focuses on history, design theory, building systems and graphic/oral communication skills required to present design ideas to others. The program is designed as a 2 + 2 curriculum consisting of a two-year A.S. that may serve as the first half of a four-year B.S. degree. Once the associate degree is earned, the graduate may choose to enter the workforce or to continue at the baccalaureate level.

ASSOCIATE OF SCIENCE IN ARCHITECTURAL ENGINEERING TECHNOLOGY ..... **65-66 sem. hrs.**

The associate degree in Architectural Engineering Technology provides students with a basic understanding of the history of architectural design and the entry-level drafting and communication skills required in order to work in a design/drafting office. Graduates with the associate of science degree are qualified for entry-level technical positions in architectural or engineering offices, firms related to architecture, or other businesses requiring in-house planning and drafting.

Required Courses (53 hrs.)

ARCH	1130	Architectural History I	3
ARCH	1160	Architectural History II	3
ARCH	2210	Design I	4
ARCH	2225	Architectural CADD	3
ARCH	2250	Design II	4
ART	1111	Art Fundamentals	3
CIVL	2210	Light Construction	4
COMP	1101	Applied Technical Programming	3
ENGL	1104	Written English I	3
ENGL	1108	Advanced Written English II	3
MATH	1101	Applied Technical Math I	3
MATH	1102	Applied Technical Math II	3
MECH	1100	Statics	3
PHYS	1101	Introduction to Physics I	4
PHYS	1102	Introduction to Physics II	4
SPCH	1100	Speech Communication	3

Electives (12 hrs).

ARCH	2200	Graphics	3
-or-			
DRFT	2215	Architectural Drafting	4
Artistic/Creative Experience			3
Cultural/Civil Elective			3
Architectural Elective			3

BACHELOR OF SCIENCE IN ENGINEERING TECHNOLOGY: ARCHITECTURAL ENGINEERING TECHNOLOGY ..... 129 sem. hrs.

Architectural Engineering Technology Curriculum *(see below)* **..... 96 sem. hrs.**

Liberal Studies Requirements ..... 33 sem. hrs.

(See "Degree Requirements" for LSRs not completed through the major)

The B.S.E.T in Architectural Engineering Technology provides a sound basis for the pursuit of general knowledge and the first phase of a professional education for the general practice of architecture. The four-year program encompasses a foundation core of design, introductory studies in architectural history and theory, and building technology. Advanced design studios address methodology, and technological and theoretical synthesis through applied studies of a wide range of design inquiries and projects. Successful completion of the degree will prepare students to enter the profession at a more advanced level or pursue a graduate degree from an NAAB-accredited school of architecture. Graduates with the baccalaureate degree are qualified for entry-level positions such as designer or engineering technician. They may be employed in architectural offices, engineering offices, corporations or businesses which produce their own in-house construction documents, and construction-related fields.

- **Architectural Engineering Technology Curriculum ..... 96 sem. hrs.**

Required Courses (84 hrs.)

ARCH	1130	Architectural History I	3
ARCH	1160	Architectural History II	3
ARCH	2210	Design I	4
ARCH	2225	Architectural CADD	3
ARCH	2250	Design II	4
ARCH	3300	Design III	4
ARCH	3310	Construction Details and Materials	4
ARCH	3320	Site Planning	3
ARCH	3350	Design IV	4
ARCH	4420	Urban Design and Preservation	3
ARCH	4430	Mechanical and Electrical Systems	3
ARCH	4450	Design V	4
ARCH	4460	Design VI	4
ART	1111	Art Fundamentals	3
CIVL	2210	Light Construction	4
CIVL	2220	Construction Materials and Methods	4
CIVL	2290	Introduction to Structures	3
COMP	1101	Applied Technical Programming	3
MATH	1101	Applied Technical Mathematics I	3
MATH	1102	Applied Technical Mathematics II	3
MECH	1100	Statics	3
MECH	2200	Strength of Materials	4
PHYS	1101	Introduction to Physics I	4
PHYS	1102	Introduction to Physics II	4

Architecture Elective (9 hrs.)
(Choose three in consultation with advisor)

ARCH	2200	Graphics	3
CHEM	1101	General Chemistry I	3
CIVL	2200	Introduction to Surveying	3
CIVL	2230	Construction Estimating	3
CIVL	2240	Construction, Land & Route Surveying	3
CIVL	4420	Construction Planning & Administration	3
DRFT	2215	Architectural Drafting	4
GEOL	1101	Physical Geology	3
MANF	2250	Total Quality & SPC	3
MECH	2210	Thermodynamics I	3
SFTY	2210	Disaster Preparedness	3
TECH	2290	Engineering Analysis I	4
TECH	3300	Engineering Analysis II	4

General Elective (3 hrs.)
Choose one

ENGL	1109	Technical Report Writing	3
ENGL	3332	Narrative & Descriptive Writing	3
ENGL	3333	Writing Non-Fiction	3
MATH	1113	Applied Statistics	4
MUSI	2205	Functional Piano IV	1
PHIL	2200	Introduction to Philosophy	3
PHSC	1150	Scientific Problem Solving	3
POLI	1101	Introduction to Global Affairs	3
SOCY	1111	Introduction to Anthropology	3
TECH	1101	Introduction to Technology	3
THEA	1110	Introduction to Theatre	3

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
MATH	1101	Applied Technical Math	3
ARCH	1130	Architectural History I	3
ART	1111	Art Fundamentals	3
SPCH	1100	Introduction to Speech Communication	3
			15

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
MATH	1102	Applied Technical Math II	3
ARCH	1160	Architectural History II	3
ARCH Elective			3
ARCH	2225	Architectural CADD	3
			15

SOPHOMORE FIRST SEMESTER

PHYS	1101	Introduction to Physics	4
ARCH	2210	Design I	4
COMP	1101	Applied Technical Programing	3
CIVL	2210	Light Construction	4
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
			18

SOPHOMORE SECOND SEMESTER

PHYS	1102	Introduction to Physics II	4
ARCH	2250	Design II	4
ARCH	2200	Graphics	3-4
- or -			
DRFT	2215	Architectural Drafting	
MECH	1100	Statics	3
Liberal Studies - Culture/Civilization Exploration elective			3
			17/18

JUNIOR FIRST SEMESTER

ARCH	3300	Design II	4
ARCH	3320	Site Planning	3
CIVL	2220	Construction Materials and Methods	4
MECH	2200	Strength of Materials	4
Liberal Studies - Culture/Civilization Exploration elective			3
			18

JUNIOR SECOND SEMESTER

ARCH	3350	Design IV	4
ARCH	4420	Urban Design & Preservation	3
CIVL	2290	Introduction to Structures	3
Liberal Studies - Culture/Civilization Exploration elective			3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
			16

SENIOR FIRST SEMESTER

ARCH	4450	Design V	4
ARCH	3310	Construction Details and Materials	4
ARCH Elective			3
Liberal Studies - Society/Human Interaction elective			3
			14

SENIOR SECOND SEMESTER

ARCH	4460	Design VI	4
ARCH	4430	Mechanical and Electrical Systems	3
ARCH Elective			3
Elective			3
Liberal Studies - Society/Human Interaction elective			3
			16

Civil Engineering Technology

The Civil Engineering Technology program at Fairmont State University prepares graduates to participate in the planning, analysis, design, construction, operation and maintenance of roadways, airports, tunnels, bridges, water supply and distribution systems, waste collection and treatment systems. The curriculum is a highly flexible 2 + 2 design; once the two-year associate's degree is earned, graduates may choose to enter the workforce or continue their education with two more years at the baccalaureate level.

ASSOCIATE OF SCIENCE IN CIVIL ENGINEERING TECHNOLOGY

(TAC of ABET Accredited) ..... **67 sem. hrs.**

The Associate of Science degree in Civil Engineering Technology provides technical courses in the fundamentals of engineering, surveying, construction materials and methods, computer graphics, civil engineering graphics, construction estimating, structures, and environmental engineering technology. Most of the technical courses provide a combination of lecture and laboratory experiences. In addition, technical courses are underpinned with instruction in mathematics and science, written and oral communication skills, and economics, which are utilized subsequently in the technical courses. Graduates with the Associate of Science degree are qualified for entry-level technical positions in construction, surveying, engineering and architectural firms; local, state and national government, environmental and public health agencies; state departments of transportation and highways; and private business industry.

Required Courses (65 hrs.)

CHEM	1101	General Chemistry I	4
CIVL	2200	Introduction to Surveying	3
CIVL	2210	Light Construction	4
CIVL	2220	Construction Materials and Methods	4
CIVL	2230	Construction Estimating	3
CIVL	2240	Construction, Land & Route Surveying	3
CIVL	2275	Civil Engineering Graphics	3
CIVL	2280	Environmental Engineering Tech I	3
CIVL	2290	Introduction to Structures	3
DRFT	2200	Fundamentals of CAD	3
ECON	2200	Economics	3
ENGL	1104	Written English I	3
ENGL	1108	Written English II	3
- or -			
ENGL	1109	Technical Report Writing	3
INFO	1100	Computer Concepts & Applications	3
MATH	1101	Applied Technical Math I	3
MATH	1102	Applied Technical Math II	3
MECH	1100	Statics	3
MECH	2200	Strength of Materials	4
SPCH	1100	Intro. to Speech Comm.	3
TECH	2290	Engineering Analysis I	4

Elective (2 hrs.)

Choose a course with advisor's approval.

BACHELOR OF SCIENCE IN ENGINEERING TECHNOLOGY: CIVIL ENGINEERING TECHNOLOGY

(TAC of ABET Accredited) ..... **128 sem. hrs.**
Civil Engineering Technology Curriculum
(see below) ..... **98 sem. hrs.**
Liberal Studies Requirements ..... **30 sem. hrs.**
(See "Degree Requirements" for LSRs not completed through the major)

The Bachelor of Science degree provides students with a greater emphasis on analysis and design with specialized classes in hydraulics and hydrology, soil mechanics and foundation design, structural analysis and design, water and wastewater systems and construction management, coupled with additional courses in science and mathematics, communication, social science and humanities. This degree is also offered with an environmental emphasis; see details below.

Graduates with the Bachelor of Science degree are qualified for an entry-level position as a Civil Engineering Technologist in construction, surveying, engineering, and architectural firms; local, state, and national government, environmental and public health agencies; state departments of transportation and highways; and private business industry. Baccalaureate graduates are eligible to sit for the Fundamentals of Engineering Exam (FE) in West Virginia, the first step to becoming a professional engineer.

• **Civil Engineering Technology Curriculum ..... 98 sem. hrs.**
Required Courses (96 hrs.)

CHEM	1101	General Chemistry I	4
PHYS	1101	Introduction to Physics I	4
CHEM	1102	General Chemistry II	4
-or-			
PHYS	1102	Introduction to Physics II	4
CIVL	2200	Introduction to Surveying	3
CIVL	2210	Light Construction	4
CIVL	2220	Construction Materials and Methods	4
CIVL	2230	Construction Estimating	3
CIVL	2240	Construction, Land & Route Surveying	3
CIVL	2275	Civil Engineering Graphics	3
CIVL	2280	Environmental Engineering Tech I	3
CIVL	2290	Introduction to Structures	3
CIVL	3305	Hydraulics and Hydrology	3
CIVL	3340	Soil Mech. & Environmental Geotechnics	4
CIVL*	4400	Highway Design and Transportation	3
CIVL	4410	Structural Analysis	3
CIVL	4420	Construction Planning & Admin	3
CIVL	4440	Structural Design	3
CIVL	4460	Environmental Engineering Tech II	3
CIVL	4470	Advanced Soil Mechanics and Foundation Design	3
DRFT	2200	Fundamentals of CAD	3
ENGL	1109	Technical Report Writing	3
ECON	2200	Economics	3
MATH	1101	Applied Technical Mathematics I	3
MATH	1102	Applied Technical Mathematics II	3
MECH	1100	Statics	3
MECH	2200	Strength of Materials	4
MECH	3320	Dynamics	3
TECH	2290	Engineering Analysis I	4
TECH	3300	Engineering Analysis II	4

**Not required for the Environmental Emphasis*

Elective (2 hrs.)
Choose a course with advisor's approval.

• **Additional Requirements for Environmental Emphasis.....6-7 sem. hrs.**

SFTY	1100	Safety and Environmental Components of Industry	3
-and-			
SFTY	2291	Environmental Engineering Technology: Hazardous Waste	4
-or-			
SFTY	3335	Air Pollution	3

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

CIVL	2210	Light Construction	4
MATH	1101	Applied Technical Math I	3
INFO	1100	Computer Concepts & Applications	3
SPCH	1100	Introduction to Speech Communication	3
ENGL	1104	Written English I	3
			16

FRESHMAN SECOND SEMESTER

CIVL	2200	Introduction to Surveying	3
MATH	1102	Applied Technical Math II	3
DRFT	2200	Fundamentals of CAD	3
CIVL	2220	Construction Materials	4
MECH	1100	Statics	3
			16

SOPHOMORE FIRST SEMESTER

ENGL	1108	Written English II	3
or			
ENGL	1109	Technical Report Writing	
CIVL	2240	Construction, Land & Route Surveying	3
CHEM	1101	General Chemistry I	4
TECH	2290	Engineering Analysis I	4
MECH	2200	Strength of Materials	4
			18

SOPHOMORE SECOND SEMESTER

CIVL	2230	Construction Estimating	3
CIVL	2280	Environmental Engineering Technology I	3
CIVL	2290	Introduction to Structures	3
CIVL	2275	Civil Engineering Graphics	3
ECON	2200	Economics	3
Elective			2
			17

JUNIOR FIRST SEMESTER

CIVL	3305	Hydraulics & Hydrology	3
TECH	3300	Engineering Analysis II	4
PHYS	1101	Introduction to Physics I	4
ENGL	1108	Written English II	3
or			
ENGL	1109	Technical Report Writing	
			14

JUNIOR SECOND SEMESTER

CIVL	3340	Introduction to Soil Mechanics	4
CIVL	4440	Structural Design	3
CHEM	1102	General Chemistry II	4
or			
PHYS	1102	Introduction to Physics II	
Liberal Studies - Culture/Civilization Exploration elective			3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
			17

SENIOR FIRST SEMESTER

CIVL	4410	Advanced Structural Analysis	3
CIVL	4460	Environmental Engineering Technology II	3
CIVL	4470	Advanced Soil Mechanics and Foundation Design	3
Liberal Studies - Culture/Civilization Exploration elective			3
MECH	3320	Dynamics	3
			15

SENIOR SECOND SEMESTER

CIVL	4420	Construction Planning & Admistration	3
Liberal Studies - Culture/Civilization Exploration elective			3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
Liberal Studies - Society/Human Interaction elective			3
CIVL	4400	Highway Design and Transportation	3
			15

Electronics Engineering Technology

The Electronics Engineering Technology program at Fairmont State University prepares graduates to work in industries that produce and use electrical and electronic equipment. Graduates are employed by a wide variety of industries, including coal, aerospace, semiconductor, control, utilities, glass, and computer companies. They may be involved in areas such as design, testing, maintenance, production, and supervision. The program

is designed as a highly flexible 2 + 2 curriculum. Once the associate degree is earned, the graduate may choose to enter the workforce or continue studying at the baccalaureate level.

ASSOCIATE OF SCIENCE IN ELECTRONICS ENGINEERING TECHNOLOGY

(TAC of ABET Accredited) ..... **69 sem. hrs.**

The associate of science degree in Electronics Engineering Technology emphasizes an understanding of basic electronic circuits and devices. Students concentrate on mathematics and science, written and oral communication skills, fundamentals of electronics, and electronic specialization classes that cover transistors, linear and digital circuits, microcomputer systems, AC/DC machinery and controls, industrial systems, communication systems, and programmable logic controllers. Graduates with the associate degree are qualified for entry level technician positions in maintenance, repair and equipment calibration.

Required Courses (69 hrs.)

COMP	1101	Applied Technical Programming	3
DRFT	1100	Engineering Graphics	3
ECON	2200	Introduction to Economics	3
ELEC	1100	Circuit Analysis I	3
ELEC	2200	Electronic Shop Practices	3
ELEC	2210	Circuit Analysis II	3
ELEC	2215	Basic Transistors	3
ELEC	2220	Linear Electronics	3
ELEC	2230	Digital Electronics	3
ELEC	2240	Industrial Electronics	3
ELEC	2250	AC-DC Machinery and Controls	3
ELEC	2260	Communication Systems	3
ELEC	2270	Microcomputer Systems	3
ELEC	2280	Programmable Controllers	3
ENGL	1104	Written English I	3
ENGL	1109	Technical Report Writing	3
MATH	1101	Applied Technical Math I	3
MATH	1102	Applied Technical Math II	3
PHYS	1101	Introduction to Physics I	4
PHYS	1102	Introduction to Physics II	4
SPCH	1100	Intro. to Speech Comm.	3
TECH	2290	Engineering Analysis I	4

BACHELOR OF SCIENCE IN ENGINEERING TECHNOLOGY: ELECTRONICS ENGINEERING TECHNOLOGY

(TAC of ABET Accredited) ..... **129 sem. hrs.**

Electronics Engineering Technology Curriculum
(see below) ..... **96 sem. hrs.**

Liberal Studies Requirements ..... **33 sem. hrs.**
(See "Degree Requirements" for LSRs not completed through the major)

The Bachelor of Science degree provides students with a greater emphasis on design and analysis, with advanced classes in linear and microcomputer systems, data acquisition and control systems, an independent senior electronics project and elective hours that can be applied to a work experience practicum in industry. Graduates with the Bachelor of Science degree are qualified for positions that range from technician through electronic engineering technologist. Work at this level usually involves product design, writing performance requirements, developing maintenance schedules, data analysis, and programming PLC's. Baccalaureate graduates are eligible to sit for the Fundamentals of Engineering Exam (FE) in West Virginia, the first step to becoming a professional engineer.

• **Electronics Engineering Technology Curriculum** ..... **96 sem. hrs.**

Required Courses (87 hrs.)

CHEM	1101	General Chemistry I	4
COMP	1101	Applied Technical Programming	3
DRFT	1100	Engineering Graphics	3
ENGL	1109	Technical Report Writing	3
ELEC	1100	Circuit Analysis I	3
ELEC	2200	Electronics Shop Practices	3
ELEC	2210	Circuit Analysis II	3
ELEC	2215	Basic Transistors	3
ELEC	2220	Linear Electronics	3
ELEC	2230	Digital Electronics	3
ELEC	2240	Industrial Electronics	3
ELEC	2250	AC-DC Machinery and Controls	3
ELEC	2260	Communications Systems	3
ELEC	2270	Microcomputer Systems	3
ELEC	2280	Programmable Controllers	3
ELEC	3300	Advanced Linear Electronics	3
ELEC	3310	Advanced Microcomputer Systems	3
ELEC	4400	Senior Electronics Project	3
ELEC	4410	Data Acquisition & Control Systems	4
MANF	2250	Total Quality and SPC	3
MATH	1101	Applied Technical Mathematics I	3
MATH	1102	Applied Technical Mathematics II	3
PHYS	1101	Introduction to Physics I	4
PHYS	1102	Introduction to Physics II	4
SFTY	1100	Safety & Environmental Comp. of Industry	3
TECH	2290	Engineering Analysis I	4
TECH	3300	Engineering Analysis II	4

TECH Electives (9 hrs.)

AVIO	2202	Instrument Landing Systems	3
AVIO	2204	Aircraft Navigation Systems	3
AVIO	2209	Aircraft Pulse and Radar Systems	3
CHEM	1102	General Chemistry II	4
COMP	1102	Principles of Programming I	3
COMP	1108	Principles of Programming II	3
COMP	2200	Principles of Programming III	3
COMP	2201	Machine Organization	3
DRFT	2200	Fundamentals of CAD	3
INFO	2250	Networking Fundamentals	3
INFO	2251	Router Theory & Router Technologies	3
INFO	2252	Advanced Routing & Switching	3
MANF	2205	Engineering Economy	3
MATH	1113	Applied Statistics	4
MATH	3316	Calculus III	4
MATH	3335	Probability & Statistics	3
MATH	3362	Linear Algebra	3
MATH	4401	Differential Equations	3
MECH	1100	Statics	3
MECH	2200	Strength of Materials	4
MECH	2210	Thermodynamics I	3
MECH	2220	Fluid Mechanics	3
MECH	2240	Machine Design I	3
MECH	3350	Numerical Methods	3
SFTY	2250	Safety Law & Compliance	3
TECH	3399	Advanced PLCs	3
TECH	4401	Work Experience Laboratory	8

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
MATH	1101	Applied Technical Math I	3
DRFT	1100	Engineering Graphics	3
ELEC	1100	Circuit Analysis I	3
ELEC	2200	Shop Practices	3
SPCH	1100	Intro. to Speech Communication	3
			18

FRESHMAN SECOND SEMESTER

ENGL	1109	Technical Report Writing	3
MATH	1102	Applied Technical Math II	3
ELEC	2210	Circuit Analysis II	3
ELEC	2215	Basic Transistors	3
COMP	1101	Applied Technical Programming	3
ECON	2200	Introduction to Economics	3
			18

SOPHOMORE FIRST SEMESTER

PHYS	1101	Introduction to Physics I	4
ELEC	2220	Linear Electronics	3
ELEC	2230	Digital Electronics	3
ELEC	2250	AC/DC Machinery and Controls	3
TECH	2290	Engineering Analysis I	4
			17

SOPHOMORE SECOND SEMESTER

PHYS	1102	Introduction to Physics II	4
ELEC	2240	Industrial Electronics	3
ELEC	2260	Communication Systems	3
ELEC	2270	Microcomputers	3
ELEC	2280	Programmable Controllers	3
			16

JUNIOR FIRST SEMESTER

ELEC	3300	Advanced Linear Electronics	3
ENGL	1108	Written English II	3
SFTY	1100	Safety & Environmental Components of Industry	3
TECH	3300	Engineering Analysis II	4
Liberal Studies - Culture/Civilization Exploration elective			3
			16

JUNIOR SECOND SEMESTER

ELEC	3310	Advanced Microcomputer Systems	3
Liberal Studies - Culture/Civilization Exploration elective			3
TECH Elective			3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
Liberal Studies - Society/Human Interaction elective			3
			15

SENIOR FIRST SEMESTER

Liberal Studies - Culture/Civilization Exploration elective			3
ELEC	4400	Senior Electronics Project	3
CHEM	1101	General Chemistry	4
TECH Elective			3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
			16

SENIOR SECOND SEMESTER

ELEC	4410	Data Acquisition and Control Systems	4
MANF	2250	Total Quality & SPC	3
TECH Elective			3
Elective			3
			13

MINOR IN ELECTRONICS ENGINEERING TECHNOLOGY ..... 19 sem. hrs.

Required Courses (19 hrs.)

ELEC	1100	Circuit Analysis I	3
ELEC	2210	Circuit Analysis II	3
ELEC	2230	Digital Electronics	3
ELEC	2270	Microcomputers	3
ELEC	3310	Advanced Microcomputer Systems	3
PHYS	1101	Introduction to Physics	4

Mechanical Engineering Technology

Mechanical engineering technologists are concerned with the production, transmission and use of mechanical power and thermal energy. They also participate in the general design, maintenance and troubleshooting of mechanical components and assemblies (machines). The Mechanical Engineering Technology program at Fairmont State University prepares graduates for work in industry as an engineering technician or technologist where they may design, build, test, and/or maintain machines and mechanical equipment. The program is designed as a highly flexible 2 + 2 curriculum. Once the two-year degree is earned, the graduate may choose to enter the workforce or continue to study at the baccalaureate level.

Employment opportunities in mechanical engineering and related fields are expected to increase about as fast as the average of all other occupations combined through the year 2010 as the demand for machinery, machine tools and power systems grows.

ASSOCIATE OF SCIENCE IN MECHANICAL ENGINEERING TECHNOLOGY

(TAC of ABET Accredited) ..... 67 sem. hrs.

The associate of science degree in Mechanical Engineering Technology emphasizes basic engineering concepts. Students concentrate on mathematics and science, written and oral communication skills, and mechanical specialization classes, including drafting, statics, strength of materials, machine design, fluid mechanics and motors/motor controllers. Many of the technical courses provide a combination of lecture and laboratory experiences. Graduates with the associate of science degree are qualified for entry-level positions as technicians, engineering assistants, and engineering aids. Job responsibilities can include a broad range of duties such as the installation, operation, maintenance, troubleshooting and repair of manufacturing equipment and commercial mechanical products.

Required Courses (67 hrs.)

COMP	1101	Applied Technical Programming	3
DRFT	1100	Engineering Graphics	3
DRFT	2200	Fundamentals of CAD	3
DRFT	2235	Technical Drafting	3
ECON	2200	Economics	3
ELEC	1100	Circuit Analysis I	3
ELEC	2250	AC-DC Machinery and Controls	3
ENGL	1104	Written English I	3
ENGL	1109	Technical Report Writing	3
MANF	1100	Materials and Processes	3
MATH	1101	Applied Technical Math I	3
MATH	1102	Applied Technical Math II	3
MECH	1100	Statics	3

MECH	2200	Strength of Materials	4
MECH	2210	Thermodynamics I	3
MECH	2220	Fluid Mechanics	3
MECH	2240	Machine Design I	3
PHYS	1101	Introduction to Physics I	4
PHYS	1102	Introduction to Physics II	4
SPCH	1100	Intro. to Speech Comm.	3
TECH	2290	Engineering Analysis I	4

BACHELOR OF SCIENCE IN ENGINEERING TECHNOLOGY: MECHANICAL ENGINEERING TECHNOLOGY

(TAC of ABET Accredited) ..... **133 sem. hrs.**
Mechanical Engineering Technology
Curriculum *(see below)* ..... **100 sem. hrs.**
Liberal Studies Requirements ..... **33 sem. hrs.**
(See "Degree Requirements" for LSRs not completed through the major)

The Bachelor of Science degree provides students with a greater emphasis on design and analysis, with advanced courses in dynamics, thermodynamics, heat transfer, heating/ ventilation/air conditioning systems and mechanical measurements. Special emphasis is placed on the practical industrial applications of basic engineering concepts and principles. Graduates with the Bachelor of Science degree are qualified for positions that range from technician up through mechanical engineer. Our graduates have been employed by a broad range of manufacturing companies including aerospace, automotive, chemical, nuclear, and steel, mining, as well as telephone, natural gas, and electric utilities. Baccalaureate graduates are eligible to sit for the Fundamentals of Engineering Exam (FE) in West Virginia, the first step to becoming a professional engineer.

• Mechanical Engineering Technology
Curriculum ..... **100 sem. hrs.**
Required Courses (91 hrs.)

CHEM	1101	General Chemistry I	4
CHEM	1102	General Chemistry II	4
COMP	1101	Applied Technical Programming	3
DRFT	1100	Engineering Graphics	3
DRFT	2200	Fundamentals of CAD	3
DRFT	2235	Technical Drafting	3
ELEC	1100	Circuit Analysis I	3
ELEC	2250	AC-DC Machinery and Controls	3
ENGL	1109	Technical Report Writing	3
MANF	1100	Materials and Processes	3
MATH	1101	Applied Technical Mathematics I	3
MATH	1102	Applied Technical Mathematics II	3
MECH	1100	Statics	3
MECH	2200	Strength of Materials	4
MECH	2210	Thermodynamics I	3
MECH	2220	Fluid Mechanics	3
MECH	2240	Machine Design I	3
MECH	3300	Thermodynamics II	3
MECH	3320	Dynamics	3
MECH	3330	Heat Transfer I	3
MECH	3340	Heating, Air Conditioning and Ventilation	3
MECH	4400	Mechanical Measurements	3
MECH	4410	Thermodynamics III	3
MECH	4430	Heat Transfer II	3
PHYS	1101	Introduction to Physics I	4
PHYS	1102	Introduction to Physics II	4
TECH	2290	Engineering Analysis I	4
TECH	3300	Engineering Analysis II	4

Electives (9 hrs.)

CIVL	2200	Introduction to Surveying	3
CIVL	2210	Light Construction	3
CIVL	2290	Introduction to Structures	3
COMP	1102	Principles of Programming I	3
COMP	1108	Principles of Programming II	3
COMP	2200	Principles of Programming III	3
COMP	2201	Machine Organization	3
DRFT	2205	Introduction to Solid Modeling	3
DRFT	2225	Descriptive Geometry	3
DRFT	2255	Tool Design	4
ELEC	2210	Circuit Analysis II	3
ELEC	2280	Programmable Controllers	3
INFO	2250	Networking Fundamentals	3
INFO	2251	Router Theory & Router Technologies	3
INFO	2252	Advanced Routing & Switching	3
MANF	2205	Engineering Economy	3
MATH	1113	Applied Statistics	4
MATH	3316	Calculus III	4
MATH	3335	Probability & Statistics	3
MATH	3362	Linear Algebra	3
MATH	4401	Differential Equations	3
MECH	3350	Numerical Methods	3
SFTY	1100	Safety & Environmental Comp. of Industry	3
SFTY	2250	Safety Law & Compliance	3
TECH	3399	Advanced PLCs	3
TECH	4401	Work Experience Laboratory	8

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
MATH	1101	Applied Technical Math I	3
DRFT	1100	Engineering Graphics	3
ECON	2200	Introduction to Economics	3
MANF	1100	Materials & Processes	3
SPCH	1100	Introduction to Speech Communication	3
			18

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
MATH	1102	Applied Technical Math II	3
DRFT	2200	Fundamentals of CAD	3
COMP	1101	Applied Technical Programming	3
MECH	1100	Statics	3
			15

SOPHOMORE FIRST SEMESTER

PHYS	1101	Introduction to Physics I	4
ELEC	1100	Circuit Analysis I	3
MECH	2200	Strength of Materials	4
MECH	2210	Thermodynamics I	3
TECH	2290	Engineering Analysis I	4
			18

SOPHOMORE SECOND SEMESTER

PHYS	1102	Introduction to Physics II	4
MECH	2220	Fluid Mechanics	3
MECH	2240	Machine Design I	3
ELEC	2250	AC/DC Machinery	3
DRFT	2235	Technical Drafting	3
			16

JUNIOR FIRST SEMESTER

CHEM	1101	General Chemistry I	4
ENGL	1109	Technical Report Writing	3
MECH	3300	Thermodynamics II	3
TECH	3300	Engineering Analysis II	4
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
			17

JUNIOR SECOND SEMESTER

CHEM	1102	General Chemistry II	4
Liberal Studies - Culture/Civilization Exploration elective			3
MECH	3340	Heating, Air Conditioning and Ventilation	3
TECH Elective			3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
			16

SENIOR FIRST SEMESTER

Liberal Studies - Culture/Civilization Exploration elective			3
MECH	3320	Dynamics	3
MECH	3330	Heat Transfer I	3
TECH Elective			3
Liberal Studies - Culture/Civilization Exploration elective			3
			15

SENIOR SECOND SEMESTER

MECH	4400	Mechanical Measurements	3
MECH	4410	Thermodynamics III	3
MECH	4430	Heat Transfer II	3
TECH Elective			3
Liberal Studies - Society/Human Interaction elective			3
			15

Safety/Environmental Engineering Technology

The Safety/Environmental Engineering Technology program prepares competent professionals who serve as valued members of the management, engineering, and business team providing solutions to complex safety/environmental problems. This program focuses on principles drawn from engineering technology, health, physics, math, psychology, language and speech. Hands-on applications of these principles are emphasized through preparatory and professional courses. Preparatory courses include math, chemistry, physics, human anatomy, statistics, speech, written composition and psychology. Professional courses include industrial hygiene and toxicology, safety engineering and design, systems safety, safety and environmental law, fire prevention, ergonomics, environmental hazard control, OSHA compliance, and program management. Computer skills and experiential learning is heavily emphasized, including laboratory activities, industrial projects and/or internships. Internships may be paid or unpaid and can include academic credit.

The curriculum is a highly flexible 2 + 2 curriculum. Once the two-year degree is earned, graduates may choose to enter the workforce or continue their education with two additional years at the baccalaureate level. The need for Safety/Environmental professionals will continue to grow into the next millennium. Major employers of our graduates include insurance companies (Liberty Mutual), government entities, state and local agencies, and businesses (IBM, Mobile Oil), and consulting firms. Increased emphasis on ergonomics, hazardous waste, accident costs, worker's compensation, regulatory compliance and health hazard control will require more Safety/Environmental professionals.

ASSOCIATE OF SCIENCE IN SAFETY/ENVIRONMENTAL ENGINEERING TECHNOLOGY ..... 68 sem. hrs.

Required Courses (68 hrs.)

SCIE	1000	Human Biology	4
BIOL	1170	Anatomy and Physiology	4
CHEM	1101	General Chemistry I	4
CHEM	1102	General Chemistry II	4
ENGL	1104	Written English I	3
ENGL	1108	Written English II	3
ENGL	1109	Technical Report Writing	3
INFO	1100	Computer Concepts & Applications	3
MATH	1101	Applied Technical Math I	3
MATH	1102	Applied Technical Math II	3
PHYS	1101	Introduction to Physics I	4
PHYS	1102	Introduction to Physics II	4
SFTY	1100	Safety and Environmental Comp. of Industry	3
SFTY	1150	Safety Management and Concepts in Accident Prevention	3
SFTY	2250	Safety Law and Compliance.	3
SFTY	2260	Fire Prevention	3
SFTY	2280	Construction Safety & Law	3
SFTY	2290	Industrial Hygiene and Toxicology	4
SFTY	2291	Environ. Engr. Technology: Hazardous Waste	4
SPCH	1100	Intro. to Speech Communication	3

BACHELOR OF SCIENCE IN ENGINEERING TECHNOLOGY: SAFETY/ENVIRONMENTAL ENGINEERING ..... 128 sem. hrs.

Safety/Environmental Engineering Curriculum *(see below)* ..... 100 sem. hrs.
Liberal Studies Requirements ..... 44 sem. hrs.
(See "Degree Requirements" for LSRs not completed through the major)
Electives ..... 27 sem. hr.

A Fire Safety option is also available for this degree; see details below. It is available only to AAS Fire Fighters graduates.

• **Safety/Environmental Engineering Curriculum ..... 100 sem. hrs.**

Required Courses (94 hrs.)

SCIE	1000	Human Biology	4
BIOL	1170	Anatomy and Physiology	4
CHEM	1101	General Chemistry I	4
CHEM	1102	General Chemistry II	4
ENGL	1109	Technical Report Writing	3
INFO	1100	Computer Concepts and Applications	3
MANF	2250	Total Quality and SPC	3
MATH	1101	Applied Technical Mathematics I	3
MATH	1102	Applied Technical Mathematics II	3
MATH	1113	Applied Statistics	4
MECH	1100	Statics	3
PSYC	1101	Introduction to Psychology	3
PHYS	1101	Introduction to Physics I	4
PHYS	1102	Introduction to Physics II	4
SFTY	1100	Safety & Environ. Components of Industry	3
SFTY	1150	Safety Mgt. & Concepts in Accident Prev.	3
SFTY	2250	Safety Law & Compliance	3
SFTY	2260	Fire Prevention	3
SFTY	2280	Construction Safety & Law	3
SFTY	2290	Industrial Hygiene and Toxicology	4
SFTY	2291	Environmental Engr. Tech.: Haz. Waste	4
SFTY	3300	Industrial Hygiene Applications and Practices	4
SFTY	3310	Ergonomics & Human Factors	3

SFTY	3335	Air Pollution	3
SFTY	3345	Water Pollution	3
SFTY	4415	Safety Internship	3
SFTY	4400	Safety Engineering Design	3
SFTY	4420	System Safety and Management	4

Electives (6 hrs.)

BUSN	2251	Corporate Communication	3
COMP	1101	Applied Technical Programming	3
ELEC	1100	Circuit Analysis I	3
ELEC	2210	Circuit Analysis II	3
MANF	1100	Materials & Processes	3
MANF	2205	Engineering Economy	3
MATH	1185	Applied Calculus I	4
MATH	1186	Applied Calculus II	4
MECH	2200	Strength of Materials	3
MECH	2210	Thermodynamics I	3
SFTY	2210	Disaster Preparedness	3
SPAN	1101	Elementary Spanish I	3
SPAN	1102	Elementary Spanish II	3
TECH	2290	Engineering Analysis I	4
TECH	3300	Engineering Analysis II	4

• **Additional Requirements for Fire Safety Option** ..... **53 sem. hrs.**

MGMT	2209	Principles of Management	3
SFTY	2291	Environmental Eng. Tech.: Hazardous Waste	4
TECH	Elective		3
On-the-Job Training			13
Approved Fire Fighters Apprenticeship			30

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
MATH	1101	Applied Technical Math	3
SCIE	1000	Human Biology	4
CHEM	1101	General Chemistry	4
SFTY	1100	Safety/Env. Comps. Ind.	3
			17

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
MATH	1102	Applied Tech. Math II	3
SFTY	1150	Sft Mgt & Con of Acc Prev.	3
CHEM	1102	General Chemistry	4
SPCH	1100	Intro. to Speech Comm.	3
			16

SOPHOMORE FIRST SEMESTER

PHYS	1101	Intro to Physics	4
SFTY	2250	Safety Law & Compliance	3
SFTY	2260	Fire Prevention	3
SFTY	2291	Env. Eng. Tech Haz. Waste	4
INFO	1100	Comp. Concepts and Appls	3
			17

SOPHOMORE SECOND SEMESTER

BIOL	1170	Anatomy & Physiology	4
ENGL	1109	Technical Report Writing	3
PHYS	1102	Intro. to Physics	4
SFTY	2290	Industrial Hygiene & Toxiology	4
SFTY	2280	Construction Safety & Law	3
			18

JUNIOR FIRST SEMESTER

SFTY	3300	Indus. Hyg. Applications & Pracs	4
MECH	1100	Statics	3
PSYC	1101	Psychology	3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
Liberal Studies - Culture/Civilization Exploration elective			3
			16

JUNIOR SECOND SEMESTER

MANF	2250	Total Quality & SPC	3
SFTY	3310	Ergo & Human Factors	3
SFTY	3335	Air Pollution	3
SFTY	3345	Water Pollution	3
MATH	1113	Applied Statistics	4
			16

SENIOR FIRST SEMESTER

Liberal Studies - Society/Human Interaction elective			3
SFTY	4400	Safety Engineering Design	3
SFTY	4415	Safety Internship	3
TECH Elective			3
Liberal Studies - Culture/Civilization Exploration elective			3
			15

SENIOR SECOND SEMESTER

SFTY	4420	System Saf. & Mgmt	4
Liberal Studies - Culture/Civilization Exploration elective			3
Liberal Studies - Culture/Civilization Exploration elective			3
TECH Elective			3
			13

MINOR IN SAFETY/ENVIRONMENTAL ENGINEERING ..... 23-24 sem. hrs.

Required Courses (20 hrs.)

SFTY	1100	Safety & Environmental Comp. of Industry	3
SFTY	1150	Safety Mgt. & Concepts in Accident Prevention	3
SFTY	2250	Safety Law & Compliance	3
SFTY	2260	Fire Prevention	3
SFTY	2290	Industrial Hygiene and Toxicology	4
SFTY	2291	Environmental Engineering Technology: Hazardous Waste	4

Electives (3-4 hrs.)

BIOL	1170	Anatomy and Physiology	4
MATH	1113	Applied Statistics	4
MECH	1100	Statics	3
PSYC	2240	Statistics	4

Graphics Technology

The Graphics Engineering Technology program at Fairmont State University is designed as a highly flexible 2 + 2 curriculum. Once the associate's degree is earned, the graduate may choose to enter the workforce or pursue the four-year degree in Electronic Publishing. The associate's degree in Graphics Technology provides students with a basic understanding of visual communications and the entry level design and technical skills. The Bachelor of Science degree provides students with a concentration in design theory and proficiency in computer and multimedia technologies that will allow them to enter the profession at a more advanced level.

Graduates with the associate degree are qualified for entry-level positions to work as layout artists, graphic design assistants, or Web design technicians. Graduates with the Bachelor of

Science degree are qualified for entry-level positions as graphic designers, art directors, creative directors, Web designers, digital pre-press technicians, technical illustrators, desktop publishing artists or production artists.

Graduates of the four-year program may also pursue further study in animation for careers in commercials, television, video game design and feature films.

BACHELOR OF SCIENCE IN GRAPHICS TECHNOLOGY: ELECTRONIC PUBLISHING/IMAGING SPECIALIZATION ..... 130 sem. hrs.

Electronic Publishing/Imaging Curriculum *(see below)* ..... 86 sem. hrs.

Liberal Studies Requirements ..... 44 sem. hrs.

• Electronic Publishing/Imaging Curriculum... 86 sem. hrs.

Required Courses (67 hrs.)

DRFT	1100	Engineering Graphics	3
DRFT	2200	Fundamentals of CAD	3
GRAP	1100	Graphic Communications Processes	3
GRAP	1150	Computer Applications to Graphics	3
GRAP	2200	Introduction to Desktop Publishing	3
GRAP	2210	Graphics-Methods and Materials	3
GRAP	2225	Basic Photography	3
GRAP	2230	Layout and Design	3
GRAP	2235	Layout and Design II	3
GRAP	2250	Graphics Practicum	4
GRAP	2265	Estimating and Cost Analysis	3
GRAP	2270	Screen Printing Techniques	3
GRAP	2280	Electronic Publishing	3
GRAP	2290	Electronic Art	3
GRAP	3305	Production (Electronic Publishing/Imaging	3
GRAP	3310	Advanced Photography	3
GRAP	4400	Computer Animation and Multimedia	3
GRAP	4410	Special Topics - Graphics	3
INFO	1100	Computer Concepts & Applications	3
JOUR	3312	The Publication Process	3
OFAD	1100	Microcomputer Keyboarding	3
TECH	1101	Introduction to Technology	3

Advisor Approved Electives (15 hrs.)

ACCT	2201	Principles of Accounting I	3
ACCT	2202	Principles of Accounting II	3
ARCH	2200	Graphics	3
ART	1140	Art Structure & Applied Design	3
ART	1141	Art Structure & Applied Design	3
ART	1142	Drawing	3
ART	1199	Special Topics	3
ART	2241	Drawing from Life	3
ART	2261	Painting	3
ART	2262	Painting	3
ART	2283	Modeling & Sculpture	3
ART	3341	Printmaking	3
ART	3383	Pottery	3
BUSN	1102	Introduction to Business	3
COMP	1100	Concepts of Computing	3
DRFT	2205	Introduction to Solid Modeling	3
FINC	2201	Intro to Financial Management	3
FINC	3307	Personal Finance	3
INFO	2200	Fundamentals of Information Systems	3
INFO	2205	Information Technology	3
JOUR	1199	Special Topics in Journalism I	3
JOUR	2240	Reporting	3
JOUR	2270	Communications in Society	3
MGMT	2209	Principles of Management	3
MGMT	2214	Office Management	3
MKTG	2204	Principles of Marketing	3
MKTG	2205	Salesmanship	3
MKTG	2220	Advertising	3
OFAD	2230	Introduction to Word Processing	3
OFAD	2232	Word Processing Applications	3
OFAD	2240	Administrative Office Procedures	3
OFAD	2250	Desktop Publishing	3
SFTY	1100	Safety & Environmental Comp of Industry	3
TECH	1100	Technology & Society	3

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

GRAP	1100	Graphic Communication Processes	3
GRAP	1150	Computer App. to Graphics	3
TECH	1101	Introduction to Techology	3
SPCH	1100	FYE Introduction to Speech Communication	3
ENGL	1104	FYE Written English I	3
GRAP	1125	Multimedia Concepts	3
			18

FRESHMAN SECOND SEMESTER

GRAP	2210	Graphics-Methods & Materials	3
DRFT	1100	Engineering Graphics	3
OFAD	2250	Desktop Publishing	3
GRAP	2225	Basic Photography	3
ENGL	1108	FYE Written English II	3
			15

SOPHOMORE FIRST SEMESTER

GRAP	2245	Digital Photography	3
GRAP	2230	Graphic Design	3
GRAP	2265	Estimating	3
INFO	1100	FYE Computer Concepts & Application	3
GRAP Elective			3
			15

SOPHOMORE SECOND SEMESTER

GRAP	2285	Electronic Art	3
GRAP	2250	Graphics Practicum	4
GRAP	2290	Computer Imaging	3
DRFT	2200	Fundamentals of CAD	3
SCI/SOC SC FYE Math			3
			16

JUNIOR FIRST SEMESTER

TECH	1101	Introduction to Technology	3
Scientific Disc			4
ENGL	CCE 2220, 2231 or 2230		3
Tech Elective Adv. Approved			3
Tech Elective Adv. Approved			3
			16

JUNIOR SECOND SEMESTER

Graphic Elective			3
GRAP	4400	Compiter Animation & Multi	3
Jour	3312	The Publication Process	3
ACE Theat 120/Mus 1120, Art 1120 or Interdisc 1120			3
ENGL			3
			17

SENIOR FIRST SEMESTER

GRAP	3305	Production (Electronic Publishing/Imaging)	3
ENGL	CCE		3
Scientific Disc			4

Society/Human 3
Tech Elective Adv. Approved 3
16

SENIOR SECOND SEMESTER

GRAP 4410 Special Topics 3
ACE 3
Society/Human 3
Tech. Elective Adv. Approved 3
Tech Elective Adv. Approved 3
GRAP 2280 Electronic Publishing 3
18

BACHELOR OF SCIENCE IN GRAPHICS TECHNOLOGY: PRINTING MANAGEMENT SPECIALIZATION ..... 130 sem. hrs.
Printing Management Curriculum *(see below)* **.. 86 sem. hrs.**
Liberal Studies Requirements ..... 44 sem. hrs.

• **Printing Management Curriculum ..... 86 sem. hrs.**
Required Courses (82 hrs.)

ACCT 2201 Principles of Accounting 3
DRFT 1100 Engineering Graphics 3
ECON 2200 Economics 3
GRAP 1100 Graphic Communications Processes 3
GRAP 1150 Computer Applications to Graphics 3
GRAP 2200 Introduction to Desktop Publishing 3
GRAP 2210 Graphics-Methods and Materials 3
GRAP 2225 Basic Photography 3
GRAP 2230 Layout and Design 3
GRAP 2235 Layout and Design II 3
GRAP 2250 Graphics Practicum 4
GRAP 2255 Advanced Imaging Transfer 3
GRAP 2265 Estimating and Cost Analysis 3
GRAP 2270 Screen Printing Techniques 3
GRAP 2275 Production (Offset, Screen Printing) 3
GRAP 2280 Electronic Publishing 3
GRAP 3310 Advanced Photography 3
GRAP 4410 Special Topics - Graphics 3
INFO 1100 Computer Concepts & Applications 3
MANF 2250 Total Quality and SPC 3
MKTG 2205 Salesmanship 3
MATH 1107 Fundamental Concepts 3
SFTY 1100 Safety and Environmental Comp. of Industry 3
TECH 1101 Introduction to Technology 3
INTR 2280 Leadership 3

Electives (4 hrs.)

ACCT 2201 Principles of Accounting I 3
ACCT 2202 Principles of Accounting II 3
ARCH 2200 Graphics 3
ART 1140 Art Structure & Applied Design 3
ART 1141 Art Structure & Applied Design 3
ART 1142 Drawing 3
ART 1199 Special Topics 3
ART 2241 Drawing from Life 3
ART 2261 Painting 3
ART 2262 Painting 3
ART 2283 Modeling & Sculpture 3
ART 3341 Printmaking 3
ART 3383 Pottery 3
BUSN 1102 Introduction to Business 3
COMP 1100 Concepts of Computing 3
DRFT 2201 Introduction to Solid Modeling 3
FINC 2201 Intro to Financial Management 3
FINC 3307 Personal Finance 3
INFO 2200 Fundamentals of Information Systems 3
INFO 2205 Information Technology 3
JOUR 1199 Special Topics in Journalism I 3
JOUR 2240 Reporting 3
JOUR 2270 Communications in Society 3
MGMT 2209 Principles of Management 3
MGMT 2214 Office Management 3
MKTG 2204 Principles of Marketing 3
MKTG 2205 Salesmanship 3
MKTG 2220 Advertising 3
OFAD 2230 Introduction to Word Processing 3
OFAD 2232 Word Processing Applications 3
OFAD 2240 Administrative Office Procedures 3
OFAD 2250 Desktop Publishing 3
SFTY 1100 Safety & Environmental Comp. of Industry ... 3
TECH 1100 Technology & Society 3

MINOR IN GRAPHICS TECHNOLOGY ..... 21 sem. hrs.
Required Courses (21 hrs.)

GRAP 1100 Graphic Communications Processes 3
GRAP 2200 Introduction to Desktop Publishing 3
GRAP 2210 Graphics-Methods and Materials 3
GRAP 2225 Basic Photography 3
GRAP 2230 Layout and Design 3
GRAP 2245 Graphic Arts Photography 3
GRAP 2265 Estimating and Cost Analysis 3

TECHNOLOGY EDUCATION

The FSU Technology Education Program is nationally recognized as one of the better undergraduate programs in the country. There is an extremely high demand for FSU graduates, especially in eastern states such as West Virginia, Virginia, Pennsylvania, Ohio, Maryland, North Carolina, South Carolina and Florida. The program's small classes are a contributing factor to its 100% passing rate on the National Teacher's Exam. Students will learn to work directly with their pupils to solve problems, plan projects, select materials, produce projects, use tools and equipment in a safe manner, and properly organize and maintain a technology education laboratory. Students may choose either the comprehensive or single-subject specialization (the latter requires students to choose another specialization in addition, in order to graduate).

BACHELOR OF ARTS IN EDUCATION: SPECIALIZATION IN TECHNOLOGY EDUCATION COMPREHENSIVE 5-ADULT ..... 130 sem. hrs.
Technology Education Curriculum *(see below)* **.. 59 sem. hrs.**
Liberal Studies Requirements ..... 38 sem. hrs.
(See "Degree Requirements" for LSRs not completed through the major)
Professional Education Courses ..... 33 sem. hrs.

• **Technology Education Curriculum ..... 59 sem. hrs.**
Required Courses (59 hrs.)

DRFT 2200 Fundamentals of CAD 3
INFO 1100 Computer Concepts and Applications 3
MATH 1101 Applied Technical Mathematics I 3
MATH 1102 Applied Technical Mathematics II 3
MANF 1100 Materials and Processes 3
TECH 1100 Technology and Society 3

TECH	1104	Technology Design & Problem Solving	3
TECH	1150	Control Technology	3
TECH	2202	Transportation I	4
TECH	2203	Manufacturing I	4
TECH	2204	Construction	4
TECH	3301	Communication	4
TECH	3302	Manufacturing II	4
TECH	3303	Transportation II	4
TECH	3304	Construction II	4
TECH	3331	Organization and Administration of Tech. Ed.	4
TECH	4431	Methods and Materials for Teaching Tech. Ed.	3

• Professional Education ..... 33 sem. hrs.

EDUC	2200	Intro. to Education	3
EDUC	2201	Instructional Technology	3
EDUC	2202	Human Growth and Development	3
EDUC	2202L	Laboratory - Clinical I	1
EDUC	3331	Reading in the Content Areas	3
EDUC	3351	Human Exceptionalities & Cultural Diversity	3
EDUC	3351L	Laboratory - Clinical II	1
EDUC	3352	Educational Psychology	3
EDUC	3352L	Laboratory - Clinical II	1
EDUC	3395	Second. Classroom Organization & Practices	4
EDUC	4495	Secondary Student Teaching/Clinical III	8

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
INFO	1100	Computer Concepts & Applications	3
MANF	1100	Materials and Processes	3
MATH	1101	Applied Technical Math I	3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
TECH	1104	Technical Design/Problem Solving	3
			18

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
MATH	1102	Applied Technical Math II	3
TECH	1150	Control Technology	3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
TECH	2204	Construction I	4
			16

SOPHOMORE FIRST SEMESTER

EDUC	2200	Introduction to Education	3
Liberal Studies - Scientific Discovery elective			4
TECH	1100	Technology and Society	3
SPCH	1100	Introduction to Speech Communication	3
TECH	3304	Construction II	4
			17

SOPHOMORE SECOND SEMESTER

EDUC	2201	Instructional Technology	3
EDUC	2202	Human Growth and Development	3
EDUC	2202L	Clinical Experience I	1
TECH	2203	Manufacturing I	4
DRFT	2200	Fundamentals of CAD	3
Liberal Studies - Scientific Discovery elective			4
			18

JUNIOR FIRST SEMESTER

TECH	2202	Transportation I	4
EDUC	3331	Reading in Content Area	3
TECH	3301	Communication	4
TECH	3302	Manufacturing II	4
Liberal Studies - Society/Human Interaction elective			3
			18

JUNIOR SECOND SEMESTER

EDUC	3351	Human Exceptionalities & Cultural Diversity	3
EDUC	3351L	Clinical Experience II	1
EDUC	3352	Educational Psychology	3
EDUC	3352L	Clinical Experience II	1
TECH	3303	Transportation II	4
TECH	3331	Organ./Adm. Tech. Ed.	4
			16

SENIOR FIRST SEMESTER

Liberal Studies - Culture/Civilization Exploration elective			3
Liberal Studies - Culture/Civilization Exploration elective			3
Liberal Studies - Culture/Civilization Exploration elective			3
Liberal Studies - Society/Human Interaction elective			3
TECH	4431	Methods and Materials	3
			15

SENIOR SECOND SEMESTER

Initial Performance Practicum			
EDUC	3395	Secondary Classroom Organization and Practices	4
EDUC	4495	Secondary/Pre-K-Adult Student Teaching/Clinical III	8
			12

BACHELOR OF ARTS IN EDUCATION: SPECIALIZATION IN TECHNOLOGY EDUCATION, 5-ADULT ..... 128 sem hrs.

Technology Education Curriculum *(see below)* 32
Liberal Studies Requirements 45
(See "Degree Requirements" for LSRs not completed through the major)
Professional Education Courses 33
Additional Specialization ..... hours will vary

Students who choose this specialization must have an additional one to complete their BA degree.

• Technology Education Curriculum ..... sem. hrs.
Required Courses (32 hrs.)

MANF	1100	Materials and Processes	3
TECH	1104	Technology Design & Problem Solving	3
TECH	1150	Control Technology	3
TECH	2203	Manufacturing I	4
TECH	3301	Communication	4
TECH	3303	Transportation II	4
TECH	3304	Construction II	4
TECH	3331	Organization and Administration of Tech Ed.	4
TECH	4431	Methods and Materials for Teaching Tech. Ed.	3

• Professional Education ..... 33 sem. hrs.

EDUC	2200	Intro. to Education	3
EDUC	2201	Instructional Technology	3
EDUC	2202	Human Growth and Development	3
EDUC	2202L	Laboratory - Clinical I	1
EDUC	3331	Reading in the Content Areas	3
EDUC	3351	Human Exceptionalities & Cul. Diversity	3
EDUC	3351L	Laboratory - Clinical II	1
EDUC	3352	Educational Psychology	3
EDUC	3352L	Laboratory - Clinical II	1
EDUC	3395	Second. Classroom Org. & Practices	4
EDUC	4495	Secondary Student Teaching/Clinical III	8

TECHNOLOGY

MINOR IN TECHNOLOGY ..... 23 sem. hrs.

Required Courses (15 hrs.)

ELEC	1100	Circuit Analysis I	3
DRFT	1100	Engineering Graphics	3
MANF	1100	Materials and Processes	3
MANF	2250	Total Quality and SPC	3
SFTY	1100	Safety & Envir Components of Industry	3

Electives (8 hrs.)

Technology Electives (advisor approved) (8 hrs)

School of Business

■ Dr. Rebecca Schaupp, Dean, School of Business
111A Jaynes Hall / (304) 367-4261
FAX: (304) 367-4613
rschaupp@fairmontstate.edu

FACULTY

ALSHALLAH, MOHAMED (1988)
Associate Professor of Economics/ Business Administration

BENNETT, GARY K., CPA (1980)
Assistant to the Dean, School of Business
Coordinator of Accounting and Finance
Senior Associate Professor of Finance/Accounting

BURNELL, MARY A., CPA (1989)
Assistant Professor of Accounting/Information Systems

CASSELL, MACGORINE (1992)
Professor of Business Administration

DODSON, TRACIE M. (1999)
Coordinator of Information Systems
Assistant Professor of Information Systems

GIORCELLI, REBECCA (2005)
Assistant Professor of Information Systems

GOODWIN, RONALD W., CPA (1978)
Associate Professor of Accounting

HARVEY, RICHARD (1988)
Dean of Graduate Studies
Professor of Finance/Business Law

HINTON, GREGORY T. (1989)
Professor of Business Law

KHALIL, MOHAMAD A. (1988)
Coordinator of Business Administration/Economics
Professor of Business Administration/Economics

KIRBY, JACK R. (2001)
Assistant Professor of Business Administration

LAWRENCE, JOAN, CPA (1973)
Associate Professor of Accounting

SURENDRAN, SUNIL (1994)
Professor of Marketing and Management

WEAVER, ROBERT C. (1988)
Coordinator of Management and Marketing
Assistant Professor of Management and Marketing

WILSON, ROGER W. (2002)
Assistant Professor of Information Systems

The School of Business offers a Bachelor of Science Degree in Accounting, Information Systems and Business Administration with concentrations in Business Management, Entrepreneurial Studies, Finance, General Business, Hospitality Management, Human Resource Management, Marketing and Sport Management. Students may also obtain a Bachelor of Arts in Education, specializing in Business Education—Comprehensive.

School of Business Degree recipients are not required to select a minor field of study, but are strongly encouraged to do so. Combinations with regard to major and minor are restricted; students must consult the Catalog or an advisor when selecting a minor. A major and a minor in the same academic field are not permitted. Duplicate credit may be earned for courses that are specifically required in both the major and minor, with the exception of Economics 2201. Economics 2202 cannot be used for Liberal Studies credit. Economics 2200 cannot be substituted for Economics 2201 in meeting the School's major or minor requirements.

Courses offered by the School of Business may be found under the headings of Accounting, Business, Business Education, Economics, Finance, Information Systems, Management and Marketing. All courses may not be offered each semester; therefore, students are urged to consult with their advisor in course scheduling. Course rotation schedules are available in the Business School office, as well as on its website.

All students seeking a B.S. in Accounting, Information Systems and Business Administration must take the core courses described below.

• Business Core ..... 45 sem. hrs.

ACCT	2201	Principles of Accounting I	3
ACCT	2202	Principles of Accounting II	3
BUSN	2251	Corporate Communications	3
BUSN	3306	Business Law I	3
BUSN	3310	Business and Economic Statistics	3
BUSN	3320	International Business	3
BUSN	4415	Strategic Management and Policy	3
ECON	2201/02	Economic Principles & Problems I, II	6
FINC	2201	Introduction to Financial Management	3
INFO	2200	Fundamentals of Information Systems	3
INFO	2235	Microcomputer Applications in Business	3
MGMT	2209	Principles of Management	3
MKTG	2204	Principles of Marketing	3
MATH*	1112	College Algebra *(or higher Math)*	3

**Students planning to enter a graduate program in business are strongly encouraged to take Math 1190 (Calculus I) in lieu of Math 1112.*

ACCOUNTING

The accounting curriculum has been designed to offer an integrated educational experience in the subdisciplines of financial accounting, managerial accounting, taxation, information systems, and auditing. The accounting degree provides students with traditional technical accounting skills, as well as expanded skills in analytical reasoning, problem solving, computers, and oral and written communication. Students are prepared to succeed in careers with public accounting firms, corporations, and non-profit organizations.

Individuals filing an initial application to sit for the CPA Examination in West Virginia must have completed a total of 150 semester hours of post-secondary education and received a bachelor's or higher degree from a college recognized by the West Virginia State Board of Accountancy. The total education program shall include an accounting concentration and business courses defined by the WVSBOA. The 150 credit hour program

is available through the School of Business. Students wishing to sit for the CPA exam should meet with their advisor early in the program to structure course work in compliance with the WVSBOA requirements.

BACHELOR OF SCIENCE IN ACCOUNTING ..... 128 sem. hrs.
Business Core ..... 45 sem. hrs.
Accounting Curriculum *(see below)* ..... 36 sem. hrs.
Liberal Studies Requirements ..... 44 sem. hrs.
Free Electives ..... 3 sem. hrs.

• **Accounting Curriculum ..... 36 sem. hrs.**
Required Courses (36 hrs.)

ACCT	3301	Intermediate Accounting I	3
ACCT	3302	Intermediate Accounting II	3
ACCT	3325	Intermediate Accounting III	3
ACCT	3330	Advanced Accounting I	3
ACCT	3331	Advanced Accounting II	3
ACCT	3350	Accounting Information Systems	3
ACCT	4404	Cost Accounting	3
ACCT	4405	Auditing	3
ACCT	4406	Federal Income Tax Accounting: Individual	3
ACCT	4407	Federal Income Tax Accounting: Partnership and Corporation	3
ACCT	4410	Case Studies in Accounting	3
BUSN	3307	Business Law II	3

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
SPCH	1100	Introduction to Speech	3
INFO	1100	Computer Concepts and Applications	3
ACCT	2201	Principles of Accounting I	3
Liberal Studies - Scientific Discovery elective			4
			16

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
MATH	1112	College Algebra	3
INFO	2235	Microcomputer Applications in Business	3
ACCT	2202	Principles of Accounting II	3
Liberal Studies - Scientific Discovery elective			4
			16

SOPHOMORE FIRST SEMESTER

ACCT	3301	Intermediate Accounting I	3
ECON	2201	Economic Principles and Problems	3
MGMT	2209	Principles of Management	3
Liberal Studies - Culture/Civilization Exploration elective			3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
			15

SOPHOMORE SECOND SEMESTER

ACCT	3302	Intermediate Accounting II	3
ECON	2202	Economics Principles and Problems II	3
MKTG	2204	Principles of Marketing	3
FINC	2201	Introduction to Financial Management	3
INFO	2200	Fundamentals of Information Systems	3
			15

JUNIOR FIRST SEMESTER

ACCT	3330	Advanced Accounting I	3
ACCT	3325	Intermediate Accounting III	3
ACCT	3350	Accounting Information Systems	3
BUSN	3306	Business Law I	3
BUSN	2251	Corporate Communications	3
Liberal Studies - Culture/Civilization Exploration elective			3
			18

JUNIOR SECOND SEMESTER

ACCT	3331	Advanced Acounting II	3
ACCT	4404	Cost Accounting	3
BUSN	3310	Business and Economic Statistics	3
BUSN	3307	Business Law II	3
BUSN	3320	International Business	3
Liberal Studies - Culture/Civilization Exploration elective			3
			18

SENIOR FIRST SEMESTER

ACCT	4406	Fed. Income Tax Accounting Individual	3
ACCT	4405	Auditing	3
BUSN	4415	Strategic Management and Policy	3
Liberal Studies - Society/Human Interaction elective			3
Elective			3
			15

SENIOR SECOND SEMESTER

ACCT	4407	Fed. Inc. Tax Accounting: Partnership & Corp.	3
ACCT	4410	Case Studies in Accounting	3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
Elective			3
Elective			3
			15

MINOR IN ACCOUNTING ..... 18 sem. hrs.

ACCT	2201	Principles of Accounting I	3
ACCT	2202	Principles of Accounting II	3

Select 12 hours from the following courses:

ACCT	3301/02	Intermediate Accounting I, II	6
ACCT	3330/31*	Advanced Accounting I, II	3
ACCT	3350	Accounting Information Systems	3
ACCT	4404	Cost Accounting	3
ACCT	4405*	Auditing	3
ACCT	4406	Federal Income Tax Accounting: Individual	3
ACCT	4407	Federal Income Tax Accounting: Partnership & Corporation	3

**ACCT 3302 – Intermediate Accounting II is a prerequisite for this course.*

BUSINESS EDUCATION:

Teaching Specialization in Business Education
Business Education Comprehensive

Business Education is a professional field for people interested in teaching in a school system, grades 5-Adult; junior or community college; or a vocational-technical center. Training is provided through a student teaching experience in the public school system. Graduates of this program also have the option of working in the business world. Courses marked with an asterisk must be completed prior to admission to the Initial Performance Practicum. Please note: Candidates for this degree are NOT required to complete the entire Business Core; all courses required for the major are listed below.

BACHELOR OF ARTS IN EDUCATION: EDUCATION GRADES 5-ADULT ..... 128 sem. hrs.
Business Education Curriculum *(see below)* ..... 57 sem. hrs.
Liberal Studies Requirements ..... 38 sem. hrs.
Professional Education Courses ..... 33 sem. hrs.

• Business Education Curriculum ..... 57 sem. hrs.

ACCT*	2201	Principles of Accounting I	3
ACCT*	2202	Principles of Accounting II	3
BUSN*	1102	Introduction to Business	3
BUSN*	1141	Business Mathematics	3
BUSN	2251	Corporate Communications	3
BUSN	3306	Business Law I	3
BUSN*	4431	Methods and Materials in Teaching Business Education	3
ECON*	2201	Economic Principles & Problems I	3
ECON*	2202	Economic Principles & Problems II	3
FINC*	3307	Personal Finance	3
INFO	1100	Computer Concepts and Applications	3
INFO	2220	Spreadsheet Design	3
MGMT	2214	Office Management	3
MKTG	2204	Principles of Marketing	3
OFAD*	2232	Word Processing Applications	3
OFAD*	2233	Database Applications	3
OFAD*	2240	Administrative Office Procedures	3
OFAD*	2242	Prof. Internship and Portfolio Development	3
OFAD*	2250	Desktop Publishing	3

• Professional Education ..... 33 sem. hrs.

EDUC	2200	Introduction to Education	3
EDUC	2201	Instructional Technology	3
EDUC	2202	Human Growth and Development	3
EDUC	2202L	Laboratory - Clinical I	1
EDUC	3331	Reading in the Content Areas	3
EDUC	3351	Human Exceptionalities & Cultural Diversity	3
EDUC	3351L	Laboratory - Clinical II	1
EDUC	3352	Educational Psychology	3
EDUC	3352L	Laboratory - Clinical II	1
EDUC	3395	Secondary Classroom Org. & Practices	4
EDUC	4495	Secondary Student Teaching/Clinical III	8

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
SPCH	1100	Introduction to Speech	3
INFO	1100	Computer Concepts and Applications	3
ACCT	2201	Principles of Accounting I	3
Liberal Studies - Scientific Discovery elective			4
			16

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
MATH	1107	Fundamental Concepts of Math	3
EDUC	2200	Introduction to Education	3
ACCT	2202	Principles of Accounting II	3
Liberal Studies - Scientific Discovery elective			4
			16

SOPHOMORE FIRST SEMESTER

BUSN	1102	Introduction to Business	3
BUSN	1141	Business Mathematics	3
ECON	2201	Economic Principles and Problems I	3
EDUC	2201	Instructional Technology	3
INFO	2235	Microcomputer Applications in Business	3
OFAD	2250	Desktop Publishing	3
			18

SOPHOMORE SECOND SEMESTER

EDUC	2202	Human Growth and Development	3
EDUC	2202L	Human Growth and Development (Clinical I)	1
ECON	2202	Economic Principles and Problems II	3
OFAD	2230	Introduction to Word Processing	3
OFAD	2233	Database Application	3
Liberal Studies - Culture/Civilization Exploration elective			3
			15

JUNIOR FIRST SEMESTER

BUSN	2251	Corporate Communications	3
EDUC	3331	Reading in the Content Areas	3
OFAD	2232	Word Processing Applications	3
OFAD	2240	Administrative Office Procedures	3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
Liberal Studies - Culture/Civilization Exploration elective			3
			18

JUNIOR SECOND SEMESTER

EDUC	3351	Human Exceptionalies & Cultural Diversity	3
EDUC	3351L	Human Exceptionalies & Cultural Div. *(Clinical II)*	1
EDUC	3352	Educational Psychology	3
EDUC	3352L	Educational Psychology (Clinical II)	1
FINC	3307	Personal Finance	3
MGMT	2214	Office Management	3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
			17

SENIOR FIRST SEMESTER

BUSN	3306	Business Law I	3
BUSN	4431	Method and Materials in Teaching Bus. Ed.	3
MKTG	2204	Principles of Marketing	3
OFAD	2242	Professional Internship & Portfolio Dev.	3
Liberal Studies - Culture/Civilization Exploration elective			3
Liberal Studies - Society/Human Interaction elective			3
			18

SENIOR SECOND SEMESTER

EDUC	3395	Sec. Classroom Organization & Practice	4
EDUC	4495	Sec/Pre-K-Adult Student Teaching *(Clinical III)*	8
			12

FINANCE

The Finance curriculum is designed to prepare students for a career path in the financial services industries, as well as for careers in corporate finance functions. Students are exposed to the concepts of financial analysis and financial decision making and their application. Students completing the B.S. in Business Administration degree with a major in finance will be able to compete with graduates of most colleges and universities for positions as account managers, bankers, credit directors, equity traders, sales managers, risk managers and financial managers.

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION: FINANCE ..... 128 sem. hrs.
Business Core ..... 45 sem. hrs.
Finance Curriculum *(see below)* ..... 21 sem. hrs.
Liberal Studies Requirements ..... 44 sem. hrs.
Free Electives ..... 18 sem. hrs.

• Finance Curriculum ..... 21 sem. hrs.
Required Courses (21 hrs.)

BUSN	3307	Business Law II	3
FINC	3307	Personal Finance	3
FINC	3384	Bank Management	3
FINC	3350	Investments	3
FINC	3385	Analyzing Financial Statements	3
FINC	4410	Managerial Finance	3
FINC	4412	PC Applications for Managerial Finance	3

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
SPCH	1100	Introduction to Speech	3
INFO	1100	Computer Concepts and Applications	3
ECON	2201	Economic Principles and Problems I	3
Liberal Studies - Scientific Discovery elective			4
			16

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
MATH	1112	College Algebra	3
INFO	2235	Microcomputer Applications in Bus.	3
ECON	2202	Economics Principles and Problems II	3
Liberal Studies - Scientific Discovery elective			4
			16

SOPHOMORE FIRST SEMESTER

ACCT	2201	Principles of Accounting I	3
MGMT	2209	Principles of Management	3
BUSN	2251	Corporate Communications	3
Liberal Studies - Culture/Civilization Exploration elective			3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
			15

SOPHOMORE SECOND SEMESTER

ACCT	2202	Principles of Accounting II	3
MKTG	2204	Principles of Marketing	3
FINC	2201	Introduction to Financial Management	3
Liberal Studies - Culture/Civilization Exploration elective			3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
			15

JUNIOR FIRST SEMESTER

BUSN	3306	Business Law I	3
FINC	3350	Investments	3
BUSN	3310	Business and Economic Statistics	3
BUSN	3320	International Business	3
Liberal Studies - Culture/Civilization Exploration elective			3
Minor/elective			3
			18

JUNIOR SECOND SEMESTER

BUSN	3307	Business Law II	3
INFO	2220	Fundamentals of Information Systems	3
FINC	3307	Personal Finance	3
FINC	3384	Bank Management	3
Liberal Studies - Society/Human Interaction elective			3
Minor/elective			3
			18

SENIOR FIRST SEMESTER

FINC	4410	Managerial Finance	3
FINC	3385	Analyzing Financial Statements	3
Minor/elective			3
Minor/elective			3
Minor/elective			3
			15

SENIOR SECOND SEMESTER

FINC	4412	PC Applications for Managerial Finance	3
BUSN	4415	Strategic Management and Policy	3
Minor/elective			3
Minor/elective			3
Minor/elective			3
			15

MINOR IN FINANCE ..... *18 sem. hrs.
Required Courses

FINC	2201	Introduction to Financial Management	3
FINC	4410	Managerial Finance	3

Select 12 hours from the following courses:

FINC	3307	Personal Finance	3
FINC	3350	Investments	3
FINC	3384	Bank Management	3
FINC	3385	Analyzing Financial Statements	3
FINC	4412	PC Applications for Managerial Finance	3

**A non-business major must also complete ACCT 2201, Principles of Accounting I, to meet the requirements for a Finance minor.*

GENERAL BUSINESS

The General Business major is designed to give students a fundamental understanding of the substance and context of business in a world that is continually changing. Students are exposed to a diversified background in the various disciplines necessary for achieving success in the business arena. This major is flexible so that students may tailor their programs to particular interests. Students may select either the Entrepreneurial Studies emphasis or the General emphasis. The General emphasis is designed to give students a fundamental understanding of the substance and context of business in a highly competitive and dynamic environment. The Entrepreneurial Studies emphasis is designed to meet the needs of students who are interested in starting their own businesses. Graduates are prepared to secure positions in insurance companies, banks, retail businesses, personnel and human resource departments, government services, and/or manage their own businesses.

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION: GENERAL BUSINESS
***(General emphasis)* ..... 63 sem. hrs.**
Business Core ..... 45 sem. hrs.
General Curriculum *(see below)* ..... 18 sem. hrs.
Liberal Studies Requirements ..... 44 sem. hrs.
Free Electives ..... 21 sem. hrs.

• General Curriculum ..... 18 sem. hrs.

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
SPCH	1100	Introduction to Speech	3
INFO	1100	Computer Concepts and Applications	3
ECON	2201	Economic Principles and Problems I	3
Liberal Studies - Scientific Discovery elective			4
			16

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
MATH	1112	College Algebra	3

INFO 2235 Microcomputer Applications in Business 3
ECON 2202 Economic Principles and Problems II 3
Liberal Studies - Scientific Discovery elective 4
16

SOPHOMORE FIRST SEMESTER
ACCT 2201 Principles of Accounting I 3
MKTG 2204 Principles of Marketing 3
Liberal Studies - Culture/Civilization Exploration elective 3
Liberal Studies - Artistic/Creative/Interdisciplinary elective 3
Minor/elective 3
Minor/elective 3
18

SOPHOMORE SECOND SEMESTER
ACCT 2202 Principles of Accounting II 3
MGMT 2209 Principles of Management 3
Liberal Studies - Culture/Civilization Exploration elective 3
Liberal Studies - Artistic/Creative/Interdisciplinary elective 3
Major/elective 3
Minor/elective 3
18

JUNIOR FIRST SEMESTER
BUSN 3306 Business Law I 3
FINC 2201 Introduction to Financial Management 3
Liberal Studies - Culture/Civilization Exploration elective 3
Major/elective 3
Major/elective 3
Minor/elective 3
18

JUNIOR SECOND SEMESTER
BUSN 3310 Business and Economic Statistics 3
BUSN 3307 Business Law II 3
Liberal Studies - Society/Human Interaction elective 3
Major/elective 3
Minor/elective 3
15

SENIOR FIRST SEMESTER
BUSN 2251 Corporate Communications 3
INFO 2200 Fundamentals of Information Systems 3
Liberal Studies - Society/Human Interaction elective 3
Major/elective 3
Major/elective 3
15

SENIOR SECOND SEMESTER
BUSN 4415 Strategic Management and Policy 3
Minor/elective 3
Minor/elective 3
Minor/elective 3
12

This emphasis is flexible so that students may tailor their programs to their particular interests. With guidance from a faculty advisor and approval by the Dean of the Business School, students will determine a program of 18 credit hours that will fulfill their needs and objectives.

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION: GENERAL BUSINESS

(Entrepreneurial Studies emphasis) ..... **63 sem. hrs.**
Business Core ..... **45 sem. hrs.**
Entrepreneurial Studies Curriculum *(see below)* . **18 sem. hrs.**
Liberal Studies Requirements ..... **44 sem. hrs.**
Free Electives ..... **21 sem. hrs.**

• **Entrepreneurial Studies Curriculum** ..... **18 sem. hrs.**
Required Courses (18 hrs.)

ACCT 2215 Managerial Accounting 3
BUSN 2205 Small Business Fundamentals 3
BUSN 3300 Entrepreneurship 3
BUSN 3315 Venture Finance 3
BUSN 3340 Advanced Business Law for Managers 3
BUSN 4405 Entrepreneurial Leadership 3
-or-
BUSN 4410 Enterprise Development 3

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER
ENGL 1104 Written English I 3
SPCH 1100 Introduction to Speech 3
INFO 1100 Computer Concepts and Applications 3
ECON 2201 Economic Principles and Problems I 3
Liberal Studies - Scientific Discovery elective 4
16

FRESHMAN SECOND SEMESTER
ENGL 1108 Written English II 3
MATH 1112 College Algebra 3
INFO 2235 Microcomputer Applications in Business 3
ECON 2202 Economic Principles and Problems II 3
Liberal Studies - Scientific Discovery elective 4
16

SOPHOMORE FIRST SEMESTER
ACCT 2201 Principles of Accounting 3
MKTG 2204 Principles of Marketing I 3
Liberal Studies - Culture/Civilization Exploration elective 3
Liberal Studies - Artistic/Creative/Interdisciplinary elective 3
Minor/elective 3
Minor/elective 3
18

SOPHOMORE SECOND SEMESTER
ACCT 2202 Principles of Accounting II 3
MGMT 2209 Principles of Management 3
Liberal Studies - Culture/Civilization Exploration elective 3
Liberal Studies - Artistic/Creative/Interdisciplinary elective 3
Major/elective 3
Minor/elective 3
18

JUNIOR FIRST SEMESTER
BUSN 3306 Business Law I 3
FINC 2201 Introduction to Financial Management 3
Liberal Studies - Culture/Civilization Exploration elective 3
Major/elective 3
Major/elective 3
Minor/elective 3
18

JUNIOR SECOND SEMESTER
BUSN 3310 Business and Economic Statistics 3
BUSN 3307 Business Law II 3
Liberal Studies - Society/Human Interaction elective 3
Major/elective 3
Minor/elective 3
15

SENIOR FIRST SEMESTER
BUSN 2251 Corporate Communications 3
INFO 2200 Fundamentals of Information Systems 3
Liberal Studies - Society/Human Interaction elective 3
Major/elective 3
Major/elective 3
15

SENIOR SECOND SEMESTER

BUSN	4415	Strategic Management and Policy	3
Minor/elective			3
Minor/elective			3
Minor/elective			3
			12

MINOR IN GENERAL BUSINESS ..... 21 sem. hrs.
This minor is available to NON-BUSINESS majors only.

Required Courses

ACCT	2201	Principles of Accounting I	3
BUSN	3306	Business Law I	3
ECON	2200	Economics	3
FINC	2201	Introduction to Financial Management	3
INFO	2200	Fundamentals of Information Systems	3
MGMT	2209	Principles of Management	3
MKTG	2204	Principles of Marketing	3

HOSPITALITY MANAGEMENT

The curriculum of the Hospitality Management program incorporates the study of fundamental business principles with practical culinary techniques. Students must complete an Associate Degree in Food Service Management-Culinary Arts Specialization before being accepted into the Hospitality Management program. *(See C&TC catalog description for AAS Food Service Management).* The Hospitality Management program of study produces graduates who are equipped to pursue a career in management of a hospitality operation. Graduates of the Hospitality Management program are prepared for positions in management of hotels & lodging, food service, cruise ships, country clubs, resorts, and tourism.

Students in the Hospitality Management program are NOT required to take the following Business Core courses:

ECON 2201/02
MGMT 2209
MKTG 2204

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION: HOSPITALITY MANAGEMENT ..... 147 sem. hrs.

AAS Food Service Management *(Culinary Specialization)* ..... 64 sem. hrs.
Business Core ..... 33 sem. hrs.
Hospitality Curriculum *(see below)* ..... 6 sem. hrs.
Liberal Studies Requirements ..... 44 sem. hrs.

• Hospitality Curriculum ..... 6 sem. hrs.
Required Courses (6 hrs.)

BUSN	4440	Hospitality Internship	3
ECON	2200	Economics	3

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

FOSM	1119	Introduction to Food Service Industry	3
FOSM	1121	Food Service Facility and Equipment	3
FOSM	1122	Sanitation and Safety	2
FOSM	2201	Principles of Food Selection and Preparation	3
FOSM	2203	Principles of Food Lab.	1
ENGL	1104	Written English	3
			15

FRESHMAN SECOND SEMESTER

FOSM	1140	Food Service Cost Analysis	3
FOSM	2202	Principles of Quantity Food	3
FOSM	2204	Principles of Quantity Lab.	1
FOSM	2209	Garde Mange	3
MGMT	2209	Principles of Management	3
ENGL	1108	Written English II	3
			16

SUMMER

FOSM	2229	Food Service Practicum	6

SOPHOMORE FIRST SEMESTER

FOSM	1110	Nutrition	3
FOSM	1130	Basic Baking	3
FOSM	2224	Purchasing and Receiving	3
FOSM	2228	Food Service Org/Mgmt	3
INFO	1100	Computer Concepts and Applications	3
			15

SOPHOMORE SECOND SEMESTER

FOSM	2227	Food and Beverage Merch	3
FOSM	2229	Food Service Practicum	3
MKTG	2204	Principles of Marketing	3
Liberal Studies - Society/Human Interaction elective			3
INFO*	2235	Microcomputer Applications for Business	3
*(Hosp. Mgmt. students shoud take as an elective)			15

JUNIOR FIRST SEMESTER

SPCH	1100	Introduction to Speech	3
ACCT	2201	Principles of Accounting I	3
BUSN	2251	Corporate Communications	3
Liberal Studies - Culture/Civilization Exploration elective			3
Liberal Studies - Scientific Discovery elective			4
			16

JUNIOR SECOND SEMESTER

MATH	1112	College Algebra	3
ACCT	2202	Principles of Accounting II	3
BUSN	3320	International Business	3
INFO	2200	Fundamentals of Information Systems	3
Liberal Studies - Scientific Discovery elective			4
			16

SENIOR FIRST SEMESTER

BUSN	3306	Business Law I	3
BUSN	3310	Business and Economic Statistics	3
ECON	2200	Economics	3
FINC	2201	Introduction to Financial Management	3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
Liberal Studies - Culture/Civilization Exploration elective			3
			18

SENIOR SECOND SEMESTER

BUSN	4415	Strategic Management and Policy	3
Liberal Studies - Culture/Civilization Exploration elective			3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
BUSN	4440	Hospitality Practicum	3
			12

INFORMATION SYSTEMS

Information Systems students study computer hardware and operating systems, network architecture and management, systems analysis and design, and database management techniques. Graduates are qualified for entry-level positions in information systems departments, network management, and database administration.

BACHELOR OF SCIENCE IN INFORMATION SYSTEMS ..... 128 sem. hrs.

Business Core ..... 45 sem. hrs.
Information Systems Curriculum *(see below)* .... 32 sem. hrs.
Liberal Studies Requirements ..... 44 sem. hrs.
Free Electives ..... 7 sem. hrs.

• Information Systems Curriculum ..... 32 sem. hrs.
Required Courses (32 hrs.)

COMP	1102	Principles of Programming I	3
INFO	2200	Fundamentals of Information Systems	3
INFO	2205	Information Technology Hardware and Operating Systems	3
INFO	2250	Networking Fundamentals	3
INFO	3310	Systems Analysis and Design	3
INFO	3339	Programming, Data, & File Structures	4
INFO	3340	Advanced Application Development	4
INFO	3350	Internship in Information Systems	3
INFO	4420	Database Design and Implementation	3
INFO	4430	Special Topics in Information Systems	3

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
SPCH	1100	Introduction to Speech	3
INFO	1100	Computer Concepts and Applications	3
ECON	2201	Economic Principles and Problems I	3
Liberal Studies - Scientific Discovery elective			4
			16

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
MATH	1112	College Algebra	3
INFO	2235	Microcomputer Applications in Business	3
ECON	2202	Economic Principles and Problems II	3
Liberal Studies - Scientific Discovery elective			4
			16

SOPHOMORE FIRST SEMESTER

ACCT	2201	Principles of Accounting I	3
INFO	2205	Info. Tech.-Hardware and Operating Systems	3
INFO	2200	Fundamentals of Information Systems	3
MGMT	2209	Principles of Management	3
Liberal Studies - Culture/Civilization Exploration elective			3
			15

SOPHOMORE SECOND SEMESTER

ACCT	2202	Principles of Accounting II	3
COMP	1102	Principles of Programming I	3
INFO	2250	Networking Fundamentals	3
MKTG	2204	Principles of Marketing	3
Liberal Studies - Culture/Civilization Exploration elective			3
			15

JUNIOR FIRST SEMESTER

BUSN	3306	Business Law I	3
FINC	2201	Introduction to Financial Management	3
INFO	3339	Programming, Data, and File Structures	4
Liberal Studies - Culture/Civilization Exploration elective			3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
			16

JUNIOR SECOND SEMESTER

INFO	3310	Systems Analysis and Design	3
INFO	3340	Advanced Application Development	4
BUSN	2251	Corporate Communications	3
Liberal Studies - Society/Human Interaction elective			3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
			16

SENIOR FIRST SEMESTER

BUSN	3310	Business and Economic Statistics	3
BUSN	3320	International Business	3
INFO	4430	Special Topics in Information Systems	3
Minor/elective			3
Minor/elective			3
Minor/elective			2
			17

SENIOR SECOND SEMESTER

BUSN	4415	Strategic Management and Policy	3
INFO	3350	Internship in Information Systems	3
INFO	4420	Database Design and Implementation	3
Minor/elective			3
Minor/elective			3
Minor/elective			2
			17

MINOR IN INFORMATION SYSTEMS ..... 18 sem. hrs.
Required Courses

INFO	2200*	Fundamentals of Information Systems	3

Select 15 hours from the following courses:

INFO	2205	Microcomputer Hard. and Operating Sys.	3
INFO	2250	Networking Fundamentals	3
INFO	2251	Router Theory and Router Technologies	3
INFO	2252	Advanced Routing and Switching	3
INFO	2253	Project Based Learning	3
INFO	3310	System Analysis and Design	3
INFO	3339	Programming, Data, & File Structures	4
INFO	3340	Advanced Application Development	4
INFO	3373	Manage./Human Resources Info. System	3
INFO	4420	Database Design and Implementation	3
INFO	4430	Special Topics in Information Systems	3

**INFO 1100 is a prerequisite for this course.*

MANAGEMENT

The B.S. in Business Administration management major offers students a choice of emphasis—Business Management or Human Resource Management. The Business Management emphasis fosters the notion that every organization needs a leader, who is competent and able to make effective decisions concerning organizational resources, goals, and plans. This program is intended to give students the skills necessary to design, operate, and control business systems and procedures. Coursework is geared toward building student understanding of the social, legal, environmental, technological, organizational and international context within which American businesses operate.

The Human Resource Management emphasis is designed to provide students with a comprehensive and practical foundation in the major areas needed to become a personnel generalist. The concept of "work smarter, not harder" makes the desire for optimum productivity in the workplace into a necessity. Human Resource Management is an essential function in all types of organizations. Professional positions in HRM are found in the areas of compensation and benefits, training, employee selection, information systems, and labor relations.

Graduates typically enter an organization in various capacities and eventually move up to middle and top management positions with increasing responsibility. Some of the industries which typically hire graduates with a concentration in management include agriculture, forestry, mining and construction

industries, manufacturing industries, transportation, communications and utilities, wholesale and retail trade businesses, state, local and federal governmental units.

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION: MANAGEMENT

(Business Management Emphasis) ..... **128 sem. hrs.**
Business Core ..... **45 sem. hrs.**
Business Management Curriculum (see below) **21 sem. hrs.**
Liberal Studies Requirements ..... **44 sem. hrs.**
Free Electives ..... **18 sem. hrs.**

• **Business Management Curriculum** ..... **21 sem. hrs.**
Required Courses (15 hrs.)

BUSN	2205	Small Business Fundamentals	3
MGMT	3308	Human Resource Management	3
MGMT	3390	Organizational Behavior	3
MGMT	4402	Organizational Change &Development	3
MGMT	4405	Operations Management	3
-or -			
MGMT	4409	Quantitative Management	3

Electives (6 hrs.)

Students may choose any 3300-4400 level Management courses.

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
SPCH	1100	Introduction to Speech	3
INFO	1100	Computer Concepts and Applications	3
ECON	2201	Economic Principles and Problems I	3
Liberal Studies - Scientific Discovery elective			4
			16

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
MATH	1112	College Algebra	3
INFO	2235	Microcomputer Applications in Business	3
ECON	2202	Economic Principles and Problems II	3
Liberal Studies - Scientific Discovery elective			4
			16

SOPHOMORE FIRST SEMESTER

ACCT	2201	Principles of Accounting I	3
MGMT	2209	Principles of Management	3
BUSN	2205	Small Business Fundamentals	3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
Liberal Studies - Culture/Civilization Exploration elective			3
Liberal Studies - Society/Human Interaction elective			3
			18

SOPHOMORE SECOND SEMESTER

ACCT	2202	Principles of Accounting II	3
FINC	2201	Introduction to Financial Management	3
MKTG	2204	Principles of Marketing	3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
Liberal Studies - Culture/Civilization Exploration elective			3
			15

JUNIOR FIRST SEMESTER

BUSN	2251	Corporate Communications	3
BUSN	3306	Business Law I	3
MGMT	3308	Human Resource Management	3
INFO	2200	Fundamentals of Information Systems	3
Liberal Studies - Culture/Civilization Exploration elective			3
Minor/elective			3
			18

JUNIOR SECOND SEMESTER

BUSN	3310	Business and Economic Statistics	3
BUSN	3320	International Business	3
MGMT	3390	Organizational Behavior	3
Major/elective			3
Minor/elective			3
			15

SENIOR FIRST SEMESTER

MGMT	4402	Organizational Change and Development	3
Major/elective			3
Minor/elective			3
Minor/elective			3
Minor/elective			3
			15

SENIOR SECOND SEMESTER

MGMT	4405	Operations Management	3
MGMT	4409	Quantitative Management	3
BUSN	4415	Strategic Management and Policy	3
Minor/elective			3
Minor/elective			3
			15

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION: MANAGEMENT

(Human Resource Emphasis) ..... **128 sem. hrs.**
Business Core ..... **45 sem. hrs.**
Human Resources Curriculum *(see below)* ..... **21 sem. hrs.**
Liberal Studies Requirements ..... **44 sem. hrs.**
Free Electives ..... **18 sem. hrs.**

• **Human Resource Curriculum** ..... **21 sem. hrs.**
Required Courses (12 hrs.)

BUSN	3319	Employment Law	3
MGMT	3308	Human Resource Management	3
MGMT	3390	Organizational Behavior	3
MGMT	4402	Organizational Change & Development	3

Electives (9 hrs.)

ECON	3305	Economics of Labor	3
INFO	3373	Management/Human Resources Info. Sys.	3
INTR	2280	Empowering Leadership	3
MGMT	3370	Compensation and Benefits	3
MGMT	3371	Employer Relations	3
MGMT	3372	Human Resources Selection and Evaluation	3

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
SPCH	1100	Introduction to Speech	3
INFO	1100	Computer Concepts and Applications	3
ECON	2201	Economic Principles and Problems I	3
Liberal Studies - Scientific Discovery elective			4
			16

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
MATH	1112	College Algebra	3
INFO	2235	Microcomputer Applications in Business	3
ECON	2202	Economic Principles and Problems II	3
Liberal Studies - Scientific Discovery elective			4
			16

SOPHOMORE FIRST SEMESTER

ACCT	2201	Principles of Accounting I	3
MKTG	2204	Principles of Marketing	3
BUSN	2205	Small Business Fundamentals	3
MGMT	2209	Principles of Management	3
Liberal Studies - Culture/Civilization Exploration elective			3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
			18

SOPHOMORE SECOND SEMESTER

ACCT	2202	Principles of Accounting II	3
BUSN	2251	Corporate Communications	3
INFO	2200	Fundamentals of Information Systems	3
Liberal Studies - Society/Human Interaction elective			3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
Liberal Studies - Culture/Civilization Exploration elective			3
			18

JUNIOR FIRST SEMESTER

BUSN	3306	Business Law I	3
MGMT	3308	Human Resource Management	3
MGMT	3390	Organizational Behavior	3
POLI	2204	Introduction to Public Administration	3
Liberal Studies - Culture/Civilization Exploration elective			3
			15

JUNIOR SECOND SEMESTER

BUSN	3310	Business and Economic Statistics	3
BUSN	3320	International Business	3
FINC	2201	Introduction to Financial Management	3
SOCY	3360	Methods of Social Research	3
Major/elective			3
			15

SENIOR FIRST SEMESTER

MGMT	4402	Organizational Change and Development	3
Major/elective			3
Minor/elective			3
Minor/elective			3
Minor/elective			3
			15

SENIOR SECOND SEMESTER

BUSN	3319	Employment Law	3
BUSN	4415	Strategic Management and Policy	3
Major/elective			3
Pub. Adm. Elective			3
Minor/elective			3
			15

MARKETING

The Marketing program is designed to develop graduates who possess a strong foundation for many career choices, by offering courses in marketing management, advertising, salesmanship, marketing research, consumer behavior, distribution/logistics management and international marketing. The program integrates the marketing training with other relevant disciplines (accounting, management, finance, economics) to assure that students have the combination of skills that meet management requirements for today's marketing activities. Students completing the B.S. in Business Administration with a major in marketing will be able to compete with graduates of most colleges and universities for positions as account supervisors, creative directors, advertising managers or executives, circulation managers, fundraising consultants, marketing directors, executive directors, marketing program managers, sales and marketing executives and operations managers.

NOTE: The minor in Retail Management cannot be used to fulfill a minor requirement when the major is marketing.

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION: MARKETING ..... 128 sem. hrs.
Business Core ..... 45 sem. hrs.
Marketing Curriculum (see below) ..... 18 sem. hrs.
Liberal Studies Requirements ..... 44 sem. hrs.
Free Electives ..... 21 sem. hrs.

- **Marketing Curriculum ..... 18 sem. hrs.**
  Required courses: 6 sem. hrs.

MKTG	3340	Marketing Research	3
MKTG	4450	Marketing Management	3

-and-

Select 12 hours from the following

MKTG	2205	Salesmanship & Sales Management	3
MKTG	3305	Distribution & Logistics Management	3
MKTG	3310	Consumer Behavior	3
MKTG	3320	Advertising and Sales Promotion	3
MKTG	3330	International Marketing	3
MKTG	3399	Special Topics in Marketing	3

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
SPCH	1100	Introduction to Speech	3
INFO	1100	Computer Concepts and Applications	3
ECON	2201	Economics Principles and Problems I	3
Liberal Studies - Scientific Discovery elective			4
			16

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
MATH	1112	College Algebra	3
INFO	2235	Microcomputer Applications in Business	3
ECON	2202	Economic Principles and Problems II	3
Liberal Studies - Scientific Discovery elective			4
			16

SOPHOMORE FIRST SEMESTER

ACCT	2201	Principles of Accounting I	3
MGMT	2209	Principles of Management	3
Liberal Studies - Culture/Civilization Exploration elective			3
Liberal Studies - Society/Human Interaction elective			3
Liberal Studies - Culture/Civilization Exploration elective			3
			15

SOPHOMORE SECOND SEMESTER

ACCT	2202	Principles of Accounting II	3
MKTG	2204	Principles of Marketing	3
BUSN	2251	Corporate Communications	3
Liberal Studies - Society/Human Interaction elective			3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
Liberal Studies - Culture/Civilization Exploration elective			3
			18

JUNIOR FIRST SEMESTER

FINC	2201	Introduction to Financial Management	3
INFO	2200	Fundamentals of Information Systems	3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
Major/elective			3
Major/elective			3
			15

JUNIOR SECOND SEMESTER

BUSN	3310	Business and Economic Statistics	3
BUSN	3320	International Business	3
BUSN	3306	Business Law I	3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
Major/elective			3
Minor/elective			3
			18

SENIOR FIRST SEMESTER

BUSN	4415	Strategic Management and Policy	3
MKTG	3340	Marketing Research	3
Major/elective			3
Minor/elective			3
Minor/elective			3
			15

SENIOR SECOND SEMESTER

MKTG	4450	Marketing Management	3
Minor/elective			3
Minor/elective			3
Minor/elective			3
Minor/elective			3
			15

SPORT MANAGEMENT

The curriculum of the Sport Management program incorporates not only the principles of marketing and management but also the knowledge of all sporting activities. The curriculum focuses on the business of sports and produces graduates who understand sound business principles. Students completing the B.S. in Business Administration degree with a major in sport management will be able to compete with graduates of most colleges and universities for positions in promotion and event management, sales administration, sports marketing, health resorts, wellness centers and country clubs.

Students in the Sport Management program are NOT required to take the following Business Core course:

ACCT 2202

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION: SPORT MANAGEMENT ..... 138 sem. hrs.
Business Core ..... 42 sem. hrs.
Sport Management Curriculum *(see below)*..... 52 sem. hrs.
Liberal Studies Requirements ..... 44 sem. hrs.

- **Sport Management Curriculum ..... 52 sem. hrs.**

Required Courses (37 hrs.)

BUSN	4420	Business and Society	3
FOSM	1110	Nutrition	3
PHED	1100	Fitness and Wellness	2
PHED	2211	Anatomy and Physiology	4
PHED	2212	Physiology of Exercise	3
PHED	3318	Sport Social Psychology	2
PHED	3320	Lifespan Motor Development	3
PHED	3357	Medical-Legal Aspects of Sport Coaching	2
PHED	3399	Sport Management Internship	3
PSYC	1101	Introduction to Psychology	3
SAFE	2200	Accident Analysis & Emergency Care	2
SCIE	1199	Human Biology	4
SOCY	1110	Introduction to Sociology	3

Electives (15 hrs.)

BUSN	2205	Small Business Fundamentals	3
ENGL	1109	Technical Report Writing	3
-or-			
JOUR	2240	Reporting I	3
MGMT	3308	Human Resource Management	3
MKTG	2205	Salesmanship and Sales Management	3
MKTG	3305	Distribution and Logistics	3
MKTG	3320	Advertising and Sales Promotion	3
MKTG	3340	Marketing Research	3
SPCH	1171	Mass Communication	3
SPCH	3337	Persuasive Communication	3

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
SPCH	1100	Introduction to Speech	3
INFO	1100	Computer Concepts and Applications	3
ECON	2201	Economic Principles and Problems I	3
Liberal Studies - Scientific Discovery elective			4
			16

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
MATH	1112	College Algebra	3
INFO	2235	Microcomputer Applications in Business	3
ECON	2202	Economic Principles and Problems II	3
Liberal Studies - Scientific Discovery elective			4
			16

SOPHOMORE FIRST SEMESTER

PSYC	1101	Introduction to Psychology I	3
ACCT	2201	Principles of Accounting I	3
MKTG	2204	Principles of Marketing	3
PHED	1100	Fitness and Wellness	2
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
Major/elective			3
			17

SOPHOMORE SECOND SEMESTER

FOSM	1110	Nutrition	3
BUSN	2251	Corporate Communications	3
SOCY	1110	Introductory Sociology	3
MGMT	2209	Principles of Management	3
INFO	2200	Fundamentals of Information Systems	3
			15

JUNIOR FIRST SEMESTER

PHED	2211	Anatomy and Physiology	4
BUSN	3306	Business Law I	3
SAFE	2200	Accident Analysis & Emergency Care	2
FINC	2201	Introduction to Managerial Finance	3
PHED	3318	Sport Social Psychology	2
Liberal Studies - Culture/Civilization Exploration elective			3
			17

JUNIOR SECOND SEMESTER

PHED	2212	Physiology of Exercise	3
Liberal Studies - Culture/Civilization Exploration elective			3
Liberal Studies - Culture/Civilization Exploration elective			3
Major/elective			3
Minor/elective			3
Minor/elective			3
			18

SENIOR FIRST SEMESTER

PHED	3320	Lifespan Motor Development	3
BUSN	3310	Business and Economic Statistics	3

PHED	3357	Medical-Legal Aspects of Sports Coaching	2
BUSN	3320	International Business	3
Major/elective			3
			14

SENIOR SECOND SEMESTER

PHED	3399	Sport Management Internship	3
BUSN	4420	Business and Society	3
BUSN	4415	Strategic Management and Policy	3
Major/elective			3
Major/elective			3
			15

ADDITIONAL BUSINESS MINORS

MINOR IN ECONOMICS ..... **18 sem. hrs.**
Required Courses:

ECON	2201/02	Economic Principles & Problems I, II	6

Select 12 hours from the following courses:

ECON	3303	Money, Credit and Banking	3
ECON	3305	Economics of Labor	3
ECON	3308	International Economics	3
ECON	4401	Managerial Economics	3
ECON	4406	Guided Economic Study	1-3
MATH	1115	Trigonometry & Elementary Functions	3
-or-			
MATH	1190	Calculus I	4

MINOR IN INTERNATIONAL BUSINESS ..... **18 sem. hrs.**
Select 6 hours from the following courses:

BUSN	3320	International Business	3
ECON	3308	International Economics	3
MKTG	3330	International Marketing	3
MGMT	3325	International Management	3

Select 12 hours from the following:

Foreign Language *(all in the same language)* Maximum of 6 hrs.

ENGL	3382	The World Novel	3
FREN	3314	French Civilization and Culture	3
GEOG	3305	Economic Geography	3
GEOG	3340	Geography of Europe	3
GEOG	3350	Geography of Latin America	3
GEOG	3360	Geography of Africa	3
GEOG	3370	Geography of Asia	3
HIST	3310	Diplomatic History of the U.S.	3
HIST	3352	Russia	3
HIST	4405	History of Africa	3
HIST	4410	History of Asia	3
HIST	4420	History of Latin America	3
HIST	4431	Recent Europe	3
PHIL	3350	Comparative Religions	3
POLI	3321	U.S. Foreign Policy	3
POLI	3350	International Law and Organization	3
POLI	3393	Future Global Crises	3
POLI	4406	International Problems	3
SPAN	3310	Spanish Civilization & Culture	3
SPAN	3320	Latin American Civilization & Culture	3

MINOR IN OFFICE ADMINISTRATION ..... **18 sem. hrs.**
Required Courses

INFO	2220	Spreadsheet Design	3
MGMT	2214	Office Management	3
OFAD	2232	Word Processing Applications	3
OFAD	2233	Database Applications	3
OFAD	2240	Administrative Office Procedures	3
OFAD	2250	Desktop Publishing	3

MINOR IN PUBLIC ADMINISTRATION ..... **21 sem. hrs.**
Required Courses (15 hrs.)

FINC	2201	Introduction to Finance	3
MGMT	2209	Principles of Management	3
MGMT	3308	Human Resource Management	3
POLI	2204	Introduction to Public Administration	3
SOCY	3360	Methods of Social Research	3

Electives (6 hrs.)

BUSN	3310	Business and Economic Statistics	3
MGMT	3390	Organizational Behavior	3
MGMT	4409	Quantitative Management	3
MKTG	3340	Marketing Research	3
MATH	1190	Calculus I	4
POLI	2205	State and Local Government	3

MINOR IN RETAIL MANAGEMENT ..... **18 sem. hrs.**
Required Courses (18 hrs.)

BUSN	2205	Small Business Fundamentals	3
MGMT	3308	Human Resource Management	3
MKTG	2204	Principles of Marketing	3
MKTG	2205	Salesmanship and Sales Management	3
MKTG	3305	Distribution & Logistics Management	3
MKTG	3320	Advertising and Sales Promotion	3

School of Education

■ Dr. Van O. Dempsey III, Dean, School of Education
352 Education Building / (304) 367-4241
FAX: (304) 367-4599
vdempsey@fairmontstate.edu

■ Dr. Carolyn Crislip-Tacy, Chair
Department of Health and Human Performance
305 Feaster Center / (304) 367-4143
ccrisliptacy@fairmontstate.edu

FACULTY

BAKER, WARREN (1992)
Assistant Professor of Education

BERRYHILL, PHILIP (1990)
Coordinator, Elementary Education
Professor of Education
Graduate Faculty

BRADLEY, L. CHERI (2001)
Temporary Assistant Professor of Education

CABLE, ROBERT (1991)
Head Athletic Trainer
Instructor of Physical Education

COLEBANK, ALLEN (1976)
Coordinator, Secondary Education
Professor of Education

ELLIOTT, JAMES L. (1989)
Football Coach
Temporary Instructor of Physical Education

HESS, RANDY (1982)
Assistant Professor of Physical Education

HILL, LARRY L. (1968)
Assistant Professor of Physical Education

HUMBERT, ROXANN (2001)
Director of Learning Technologies
Associate Professor of Education
Graduate Faculty

JAMES, KRISTI (2004)
Temporary Instructor of Education
Minority Teaching Fellow

JONES, GWENDOLYN R. (2003)
Assistant Professor of Education
Graduate Faculty

KABAIKU, CHARITY (2004)
Minority Teaching Fellow
Temporary Instructor of Education

KIEFER, KRISTI A. (1994)
Temporary Assistant Professor of Physical Education

KREUTZER, JUDITH R., CFCS, CFLE (1983)
Director of Family and Consumer Sciences
Professor of Family and Consumer Sciences
Graduate Faculty

LAVORATA, CHRISTINA M. (1999)
Associate Provost
Associate Professor of Education
Graduate Faculty

LOPEZ, MICHAEL A. (2002)
Assistant Football Coach
Instructor of Health and Physical Education

MCCLURE, NANCY C. (1998)
Director, Fairmont State Foundation Center for Teaching Excellence
Associate Professor of Education

MCDONALD, STEPHEN M. (1994)
Women's Basketball Coach
Instructor of Physical Education

MOROOSE, DONALD A. (1969)
Associate Dean of Education for Graduate Studies & Clinical Experiences
Professor of Education
Graduate Faculty

MORPHEW, VALERIE (2000)
Associate Professor of Education
Graduate Faculty

MURPHY, TIMOTHY (2002)
Men's Basketball Coach
Temporary Assistant Professor of Physical Education

OWENS, BARBARA (2005)
Director of Clinical Experiences

PAVLOVIC, STEPHEN (2005)
Assistant Professor of Education
Graduate Faculty

PIERCE, RICHARD (2005)
Assistant Professor of Education
Graduate Faculty

RENEAU, PAUL D. (2002)
Associate Professor of Physical Education
Graduate Faculty

SAPP, G. H. BUDD (1997)
Associate Professor of Education
Graduate Faculty

SMITH, SHARON (2005)
Associate Professor of Education

SNIVELY, PATRICK M. (2001)
Swimming Coach
Temporary Instructor of Physical Education

VINCENT, BRENT (2004)
Assistant Men's Basketball Coach
Temporary Instructor of Health and Physical Education

The teacher education program at Fairmont State University is designed to utilize the cooperative functions of the academic disciplines and the School of Education. The University believes that adequate preparation for teaching requires a rich and comprehensive experience in general education, a concentration in at least one academic specialization and certain attitudes, knowledge, skills and dispositions which characterize effective teaching.

The role of today's teacher requires persons skilled at making instructional and managerial decisions to meet the individual and group needs of a diverse population. Continuing advances in education technology force a number of instructional choices, and beginning teachers must be prepared to meet these challenges.

Fairmont State University's undergraduate teacher preparation program has adopted the Informed Decision Maker Model, with the aim of preparing teachers to make instructional decisions based upon a strong foundation of knowledge and skill. With greatly expanded knowledge bases, materials, and technology, teacher preparation programs must produce graduates able to make informed choices in providing equitable access to education for our nation's children.

ADMISSION TO TEACHER EDUCATION

Any student may enroll in EDUC 2200, Introduction to Education, or EDUC 2220, Areas of Exceptionality in Special Education. While enrolled in EDUC 2200, teacher candidates will complete a "Declaration of Intent" to the Dean of Teacher Education as the initial step in the application process.

In order to be admitted to teacher education a candidate must have:

- Obtained a score of 18 or above on both the Reading and Composite sections of the ACT (For those taking the SAT the equivalent scores are as follows: Combined Verbal and Math score of 870 or above, and a verbal score of 450 or above)
- Earned passing scores on all three sections of the Pre-Professional Skills Test (PPST)
- 2.75 overall GPA
- 2.75 education GPA
- 2.75 GPA in each teaching specialization
- Completed EDUC 2200
- Submitted a Declaration of Intent
- Submitted a Criminal Record Background Check

Students are expected to apply for admission to teacher education while enrolled in EDUC 2200 and will be notified in writing of the decision to admit or not admit. Teacher education candidates are expected to achieve a GPA of at least 2.75 overall in each content area and in professional education courses in order to be admitted to Clinical III/Student Teaching.

BACHELOR OF ARTS IN EDUCATION

The Liberal Studies requirement for FSU teacher education students differs for elementary and middle/adolescent education programs; however, each consists of a minimum of 45 credit hours distributed over humanities, mathematics, natural sciences and physical education and health. The Liberal Studies requirements for elementary education also fulfill selected requirements for the Elementary/K-6 specializations and are included with the Elementary and the Early/Middle Specialization in determining the 2.75 grade point requirement for eligibility for the Clinical III/Student Teaching component of the program.

To meet the requirements for the Bachelor of Arts in Education, the candidate must:

1.) earn a minimum of 128 hours' credit in approved subjects, with a quality point average of 2.75 or better for all courses attempted
2.) attain a 2.75 average in each teaching specialization and professional education;
3.) meet the general and specific requirements set up for the curriculum and teaching specialization(s) elected;
4.) achieve acceptable scores on the PPST.

TEACHING CURRICULA

Fairmont State University recommends for professional licensure only those persons who have graduated and have satisfactorily completed a teacher education curriculum approved by the West Virginia Board of Education. The University offers curricula for early, middle and adolescent education leading to the degree of Bachelor of Arts in Education. Students who satisfactorily complete a teaching curriculum in a given area and achieve passing scores on the PPST, PLT, and appropriate content exams will be recommended for a Professional Certificate in one of the following grade areas:

1.) K-6
2.) K-Adult
3.) Pre K-Adult
4.) 5-9
5.) 5-Adult
6.) 9-Adult

Specializations which may be added include Mentally Impaired, Specific Learning Disabilities, Multi-Categorical and various academic subject specializations.

STUDENT TEACHING / CLINICAL III

Student teaching is required in all programs and is evaluated on a basis of Pass, Incomplete, or Fail. Students must maintain at least a C average in the coursework portion of Clinical III (EDUC 3390 or EDUC 3395) in order to be eligible for the student teaching experience. Students must complete student teaching or comparable experience at all developmental levels and in all of the teaching specializations for which they expect to be licensed. At the present time, student teaching experiences are provided in the surrounding public school systems. All such experiences are cooperatively administered by college and public school personnel. Due to the uniqueness of the off-campus student teaching experience, a candidate may be administratively removed if there is cause.

CLINICAL EXPERIENCE

This sequence is required for all teacher education candidates.

Clinical I

This is a one-credit-hour lab that must be completed as a clinical experience in the public school setting. The clinical experience will allow the teacher candidate the opportunity to apply and reflect on his/her content, professional and pedagogical knowledge, skills, and dispositions in a variety of settings.

Clinical II

This requirement consists of two one-credit-hour labs that must be completed as a clinical experience in the public school setting. The clinical experience will allow the teacher candidate the opportunity to apply and reflect on his/her content, professional and pedagogical knowledge, skills and dispositions in a variety of settings. In addition, the teacher candidate will be provided with experiences that allow for immersion in the learning community so that s/he is able to demonstrate proficiency in the professional role for which s/he is preparing.

Clinical III/Student Teaching

In order to enroll in Clinical III/Student Teaching, a teacher candidate must complete the Application to Clinical III packet and meet the below listed requirements for student teaching. The packets are available in the Dean of Teacher Education Office. All liberal studies requirements of the University as well as the minimum requirements of the teaching specialization must be completed before Clinical III/Student Teaching can be scheduled.

In order to enroll in Clinical III/Student Teaching the teacher candidate must:

- Be officially admitted to teacher education
- Complete at least 108 semester hours with a minimum grade point average of 2.75 overall in education foundation and professional education courses, and each teaching specialization. All courses in the teaching specialization which are marked by an asterisk in this catalog must be completed prior to admission to Clinical III/Student Teaching.
- Complete a background check by the Criminal Investigation Bureau of West Virginia State Police and/or the FBI
- Provide evidence of good moral character and professional dispositions as evidenced by positive evaluations from Clinical I and II, faculty, advisors, students, and the community.

PRAXIS II

Successful completion of the appropriate PRAXIS II Specialty Area test(s) and PLT are requirements for licensure. A report of the Specialty Area Test(s) and PLT scores must accompany the application for licensure to the West Virginia Department of Education. If the test scores do not meet the state minimum score, the application must be held pending receipt of acceptable scores. Candidates should keep in mind that a denial of licensure at the time of graduation may subject them to changes in program requirements if they seek licensure later.

Early/Middle Education. Candidates expecting to be licensed for Elementary Education K-6 and an academic specialization must achieve acceptable scores in both areas.

Middle/Adolescent Education. Candidates expecting to be licensed for teaching in grades 5-Adult or 9-Adult must take the Specialty Area Test consistent with the specialization(s) to be named on the license. If they expect to be licensed in two specializations, they must achieve acceptable scores in both specializations.

Pre K-Adult Education. A candidate expecting to be licensed for teaching in grades Pre K-Adult must achieve acceptable scores on the Specialty Area Test consistent with the Pre K-Adult specialization to be named on the license.

In order to identify the appropriate testing dates, times, locations, etc., for any given year, candidates should check the PRAXIS Bulletin for the year in question.

UNIVERSITY RECOMMENDATION PREREQUISITE TO CERTIFICATION

University recommendation shall take into consideration Chapter 18A, Section 3, Article 1, of the West Virginia School Law, which reads "A certificate to teach shall not be granted to any person who is not of good moral character and physically and mentally qualified to perform the duties of a teacher, and shall not have attained the age of eighteen years on or before the first day of October of the year in which the certificate is issued. . ."

The issuance of an original certificate shall require:

1.) The recommendation of the Dean of Teacher Education, in consultation with the supervisor of student teachers and chairperson of the department offering the student's chosen specialization. This recommendation is expected to reflect, in addition to academic criteria, satisfactory performance on the part of the applicant in a typical classroom situation.
2.) An official statement by the Dean of Teacher Education that the approved program has been completed in full.

Programs of Study

ELEMENTARY EDUCATION K-6

Candidates who wish to qualify for teaching in an open or self-contained classroom, grades K-6, shall complete the Liberal Studies Requirements, the Elementary Education Program and Professional Studies courses as outlined below. Subject specializations are NOT required for this degree but students may choose to add them if they wish. Student teaching is required in an approved K-6 classroom, and in an approved classroom for each additional specialization. Some combinations may require more than 16 weeks of student teaching. For specific program requirements and additional specializations, see the section of the catalog for the academic school which offers the program. Ex: for Art Pre K-Adult, see School of Fine Arts.

Optional specializations which may be combined with Elementary Education are as follows. See below for requirements.

1.) Computer Science (Pre K-Adult)
2.) Multi-Categorical (K-Adult)
3.) Mentally Impaired (K - Adult)
4.) Specific Learning Disabilities (K-Adult)
5.) School Library/Media (Pre K-Adult)
6.) General Mathematics through Algebra I (5-9)
7.) Spanish (Pre K-Adult)

BACHELOR OF ARTS IN EDUCATION:
ELEMENTARY EDUCATION K-6 ..... 132 sem. hrs.
I. Liberal Studies Requirements ..... 44 sem. hrs.
II. Professional Education Courses ..... 33 sem. hrs.
III. Elementary Education K-6 Program ..... 55 sem. hrs.

• I. Liberal Studies Requirements ..... 44 sem. hrs.
First Year Experience (15 hours)

ENGL	1104	Written English I	3
ENGL	1108	Written English II	3
MATH	1112	College Algebra	3

Note: Appropriate ACT/SAT scores may allow for an exemption from MATH 1112

INFO	1100	Computer Concepts	3
SPCH	1100	Introduction to Speech	3

Society/Human Interaction (6 hours)

GEOG	2210	Introduction to Geography	3
POLI	1103	American Government	3

Culture/Civilization Exploration (9 hours)

ENGL	2220	Literature of the Western World I	3
ENGL	2221	Literature of the Western World II	3
HIST	1107	US History I	3
- or -			
ENGL	2230	Introduction to Literature I	3
ENGL	2231	Introduction to Literature II	3
HIST	1107	US History I	3

Scientific Discovery (8 hours)

BIOL	1104	Biosphere	4
PHSC	2201	Exosphere	4

Artistic/Creative Expression and Interdisciplinary/ Advance Study (6 hours)

ART	1120	Art Appreciation	3
- or -			
MUSI	1120	Music Appreciation	3
- or -			
THEA	1120	Theatre Appreciation	3
- or -			
INTR	1120	Experiencing the Arts	3
- and -			
Artistic/Creative Expression Course OR			
Performance-based Course OR			
Interdisciplinary/Advanced Studies			3

Writing Intensive Course (3 hours)
See Degree Requirements section

• II. Professional Education ..... 33 sem. hrs.

EDUC	2200	Introduction to Education	3
EDUC	2201	Instructional Technology	3
EDUC	2202	Human Growth and Development	3
EDUC	2202L	Clinical I	1
EDUC	2220	Introduction to Special Education	3
EDUC	3351	Inclusive Classroom Practices	3
EDUC	3351L	Clinical II	1
EDUC	3352	Educational Psychology	3
EDUC	3352L	Clinical II	1
EDUC	4490	Clinical III – K-6 Student Teaching	12

• III. Elementary Education K-6 Program ..... 55 sem. hrs.
Courses marked with an asterisk must be completed prior to Clinical III – Student Teaching

ART*	3350	Elementary Art Education	3
EDUC*	3300	Planning, Assessment, and Management	3
EDUC*	3330	The Reading Process	3
EDUC*	3331	Reading in the Content Areas	3
EDUC*	3332	Pedagogy of Literacy	3
EDUC*	3350	Elementary Social Studies Methods	3
ENGL*	3354	Children's Literature	3
HIST	1108	US History II	3
HIST	2211	World Civilizations I	3
- or -			
HIST	2212	World Civilizations II	3
- or -			
HIST	2213	World Civilizations III	3
HIST*	3302	West Virginia	3
HLTA*	4400	Health Education for the Elementary School	3
MATH*	2251	Structure of Real Numbers	3
MATH*	2252	Data Analysis and Geometry	3
MATH*	3353	Math Methods for Elementary Teachers	3
MUSI*	2231	Music in the Elementary Classroom	3
PHED*	3326	Early Psychomotor Development	3
PHSC*	2202	Geosphere	4
PHSC*	4412	Science in the Elementary School	3

OPTIONAL SPECIAL EDUCATION SPECIALIZATIONS
(for Elementary, K-6 only) **.....19-25 sem. hrs.**
Required Course (all specializations) (3 hrs.)

EDUC	2220	Areas of Exceptionality in Special Ed.	3

Specialized Coursework (choose one group):

A. Mentally Impaired K-Adult **..... 16 sem. hrs.**

EDUC	3320	Education of the Mentally Impaired	3
EDUC	3321	Diag., Presc. and Assess. Tech.	3
EDUC	3326	Curriculum and Inst.: Core Knowledge and Skills for Handicapped Learners	3
EDUC	4446	Applied Practicum: Mentally Impaired and/or Learning Disabled	3
EDUC	4470	Student Teaching-M.I.	4

B. Specific Learning Disabilities K-Adult **..... 16 sem. hrs.**

EDUC	3317	Specific Learning Disabilities	3
EDUC	3321	Diag., Presc. and Assess. Tech.	3
EDUC	3326	Curriculum and Inst.: Core Knowledge and Skills for Handicapped Learners	3
EDUC	4446	Applied Practicum: Mentally Impaired and/or Learning Disabled	3
EDUC	4471	Student Teaching-SLD	4

C. Multi-Categorical K-Adult **..... 22 sem. hrs.**

EDUC	3317	Specific Learning Disabilities	3
EDUC	3318	Behavior Disorders	3
EDUC	3320	Mental Impairment	3
EDUC	3321	Diagnosis, Prescription, Assessment	3
EDUC	3326	Strategies for Inclusive Teaching	3
EDUC	4446	Practicum in Special Education	3
EDUC	4472	Student Teaching: Multi-Categorical	4

D. Subject Specializations Grades 5-9: General Mathematics Through Algebra I

Requires Special Methods 4431 in the Grades 5-9 specialization. This course must be taken prior to the semester a student plans to enroll in Clinical III/Student Teaching.

Elementary Education: Recommended Course Sequence

This schedule covers required classes for the major. Students must remember to schedule Liberal Studies Requirements, major electives and free electives as well.

FIRST YEAR		SECOND YEAR	
First Semester	*Second Semester*	*First Semester*	*Second Semester*
HIST 1107	MATH 1110	MATH 2210	MATH 3323
SOCY 1110	HIST 1108	PHSC 2201	PHSC 2202
	HLTH 1100	ECON 2200	EDUC 2201
	SAFE 2200	PHED 2236	EDUC 2202 (+ lab)
	BIOL 1104	EDUC 2200	

THIRD YEAR		FOURTH YEAR	
First Semester	*Second Semester*	*First Semester*	*Second Semester*
HIST 2211	MUSI 2232	HLTH 4400	EDUC 3390
or 2212 or 2213	ART 3354	PHSC 4412	EDUC 4490
MUSI 2231	EDUC 3331	EDUC 3351 (+ lab)	
GEOG 2202	EDUC 3350	EDUC 3352 (+ lab)	
ART 3353	ENGL 3354		
EDUC 3330			
POLI 2200			

PRE K-ADULT

Candidates who wish to qualify for teaching in an open or self-contained classroom, grades 5-Adult, shall complete the following program. Candidates electing a comprehensive field must include the Methods and Materials course for that comprehensive area. If electing to complete two single-subject specializations, Methods and Materials must be completed for both specializations. The student teaching assignments must also include teaching experience at each developmental level to be named on the license.

BACHELOR OF ARTS IN EDUCATION:
PRE K-ADULT EDUCATION

(Hours will vary) ..... **128 minimum**

I. Liberal Studies Requirements ..... **45 sem. hrs.**

II. Professional Education Courses ..... 33 **sem. hrs.**

III. Specializations ***(hours will vary)***

Choose one of the following options.

a.) One comprehensive specialization to teach in grades 5-Adult or 9-Adult the related subjects which comprise the comprehensive specialization.

b.) Two single-subject specializations for grades 5-Adult

c.) One single-subject specialization for grades 5-Adult or 9-Adult and one specialization for grades 5-9

d.) One single specialization for grades 5-Adult or 9-Adult and specialization in either Computer Science Education, Physical Education, School Library-Media, or Spanish Pre K-Adult.

• I. Liberal Studies Requirements ..... **45 sem. hrs.**

Communication Skills (9 hrs.)

ENGL	1104	Written English I	3
ENGL	1108	Written English II	3
SPCH	1100	Intro to Speech Communication.	3

Literature (6 hrs.)

Select one of the following pairs

ENGL	2220	Literature of the Western World I	3
ENGL	2221	Literature of the Western World II	3
ENGL	2230	Introduction to Literature I, II	3
ENGL	2231	Introduction to Literature I, II	3

Fine Arts (6 hrs)

Select one of the following courses

ART	1120	Art Appreciation	3
MUSI	1120	Music Appreciation	3
THEA	1120	Theatre Appreciation	3

-and-

See the Fine Arts section of "Degree Requirements," for the electives available to fulfill the remaining three hours.

Social Sciences (12 hrs.)

GEOG	2210	Introduction to Geography	3
HIST	1107	United States History I	3
HIST	1108	United States History II	3

Select one:

HIST	2211	World Civilizations I	3

-or -

HIST	2212	World Civilizations II	3

-or -

HIST	2213	World Civilizations III	3

Mathematics (6 hrs.)

MATH	1110	Math for Elementary Teachers I	3
INFO	1100	Computer Concepts	3

Natural Sciences (4 hrs.)

BIOL	1104	Biosphere	4

Physical Education (2 hrs.)

PHED	3326	Early Psychomotor Development	2

Writing Intensive Course (3 hrs.)

• II. Professional Education ..... 33 **sem. hrs.**

EDUC	2200	Intro. to Education	3
EDUC	2201	Instructional Technology	3
EDUC	2202	Human Growth and Development	3
EDUC	2202L	Laboratory - Clinical I	1
EDUC	3331	Reading in the Content Areas	3
EDUC	3351	Human Exceptionalities & Cultural Diversity	3
EDUC	3351L	Laboratory - Clinical II	1
EDUC	3352	Educational Psychology	3
EDUC	3352L	Laboratory - Clinical II	1
EDUC	3395	Second. Classroom Org. & Practices	4
EDUC	4495	Second./Pre-K-Adult Stud.Teach./Clinical III	8

• III. Specializations

For course requirements in each specialization, refer to the chapter for the desired subject (ex: for Business Education, see Chapter 9, the School of Business). Secondary special methods and student teaching are required in all areas in order to be licensed. Secondary and Pre K-Adult specializations are also available via the Master of Arts in Teaching program.

1.) 5-Adult Comprehensive Specializations
(no other specialization required)

Art (Pre K-Adult)
Business Education
Consumer and Homemaking Education
Mathematics

Music (Pre K-Adult)
Social Studies
Technology Education

2.) 5-Adult or 9-Adult Single Specializations
(requires a second specialization for 5-Adult, 9-Adult, Pre K-Adult, or 5-9)
Art
Biology (9-Adult)
Chemistry (9-Adult)
English
French
General Science
Health
Journalism
Oral Communications
Physics (9-Adult)
Technology Education

3.) 5-9 Specializations
(requires second specialization for 5-Adult, 9-Adult, or Pre K-Adult)
General Mathematics through Algebra I

4.) Other Specializations
(requires second specialization for 5-9, 9-Adult, 5-Adult, or Pre K-Adult)
Computer Science Education
Physical Education
School Library/Media
Spanish

**The School Library-Media, Computer Science Education and Spanish K-Adult program may be selected in combination with a specialization for classroom teaching in grades 5-Adult, 9-Adult, Pre K-Adult, or Elementary K-6.*

ART AND MUSIC

Each teacher candidate who is qualifying for teaching of Art or Music, grades Pre K through Adult shall complete the following program. It is the responsibility of candidates for a degree to know and meet the general requirements of the University and the specific requirements of the chosen curriculum. It is the candidate's responsibility also to keep informed of his/her grade point standing. All of this information may be obtained from the student's advisor or the Dean of Teacher Education.

BACHELOR OF ARTS IN EDUCATION: TEACHING SPECIALIZATION IN ART ..128-142 sem. hrs.
Liberal Studies Requirements ..... 45 sem. hrs.
Professional Education Courses ..... 33 sem. hrs.
Art Courses ..... 44-61 sem. hrs.

BACHELOR OF ARTS IN EDUCATION: TEACHING SPECIALIZATION IN MUSIC ... 143 sem. hrs.
Liberal Studies Requirements ..... 45 sem. hrs.
Professional Education Courses ..... 33 sem. hrs.
Music Courses ..... 66 sem. hrs.

Other Programs of Study Available from the School of Education

Students interested in the Bachelor of Science degrees listed here must fulfill the Liberal Studies Requirements as outlined in "Degree Requirements" section. Students interested in the Bachelor of Arts in Education programs must fulfill the Liberal Studies Requirements as outlined in this chapter.

COMPUTER SCIENCE TEACHING SPECIALIZATION: PRE K-ADULT ..... 24 sem. hrs.
Required Courses (24 hrs.)

EDUC	2225	Computer Education	3
EDUC	2226	Technology in Instruction	3
EDUC	2201	Instructional Technology	3
EDUC	3307	Instructional Technology II	3
GRAP	1150	Comp. Applications to Graphics	3
GRAP	2200	Intro to Desktop Publishing	3
GRAP	4400	Computer Animation	3
INFO	2250	Networks & Telecommunications	3

LIBRARY SCIENCE

The library science program is designed for students who desire a minor that will prepare them for positions in public, academic, and special libraries, and students who are interested in preparing for graduate study in librarianship. Other students, regardless of subject interest, can profitably elect courses from Library Science offerings.

Persons holding the Bachelor of Arts or Bachelor of Science degree with a minor in library science are prepared for employment in academic, public, or special libraries at the associate level. The library associate performs pre-professional tasks that require maturity of judgment, an appreciation of the philosophy of library service and the ability to respond to the needs of people using the library. This minor also provides the prerequisite requirements of many American Library Association accredited schools.

MINOR IN LIBRARY SCIENCE ..... 18 sem. hrs.
Required Courses (18 hrs.)

LIBS	1105	Introduction to Library Science	3
LIBS	2200	Reference and Bibliography	3
LIBS	2209	Library Materials for Children	3
-or-			
LIBS	2210	Library Materials for Adolescents	3
-or-			
ENGL	3354	Children's Literature	3
LIBS	3302	Cataloging and Classification	3
-or-			
LIBS	3303	Technologies and the Library	3
LIBS	3304	Organization and Administration	3
LIBS	4400	Library Practice	3

TEACHING SPECIALIZATION AS LIBRARY MEDIA SPECIALIST: PRE K-ADULT ..... 24 sem. hrs.

The purpose of this program is to prepare students for certification in elementary and secondary school librarianship. This teaching field (Pre K-Adult) must be selected in combination with a specialization for classroom teaching. Library Science 4400 is taken as part of the Initial Performance Practicum. All

other courses must be completed before admission to the Initial Performance Practicum.

Note: All courses are available in a WebCT format for accelerated students at the undergraduate levels. Interested persons should contact the School Library Media Program Coordinator or visit http://www.fscwv.edu/library/ls/index.shtml

Required Courses (24 hrs.)

LIBS	1105	Introduction to Library Science	3
LIBS	2200	Reference and Bibliography	3
LIBS	2209	Library Materials for Children	3
-or-			
LIBS	2210	Library Materials for Adolescents	3
LIBS	3302	Cataloging and Classification	3
LIBS	3303	Technologies and the Library	3
LIBS	3304	Organization and Administration	3
LIBS	3305	Library in the Educational Process	3
LIBS	4400	Library Practice	3

EXERCISE SCIENCE

A Bachelor of Science degree and minor are offered in Exercise Science for students interested in pursuing careers outside teaching.

The Exercise Science major integrates the theories and practicalities of exercise physiology in preparing graduates for a career in this field. This is achieved through an understanding of the science of human movement and physiology, coupled with essential hands-on experiences that culminate in an internship in a health/fitness facility. Graduates of this major are prepared to pursue careers in athletics programs, exercise/fitness centers, hospital wellness programs, corporate fitness programs, rehabilitation centers, and allied health areas. Additionally, the program prepares students for advanced study in related fields such as exercise physiology, physical therapy, occupational therapy, etc. Students also have the opportunity to actively participate in faculty research projects, thus expanding their professional knowledge and abilities.

BACHELOR OF SCIENCE IN EXERCISE SCIENCE ..... **128 sem. hrs.**
Exercise Science Curriculum *(see below)* ..... **43 sem. hrs.**
Liberal Studies Requirements ..... **44 sem. hrs.**
Free Electives ..... **41 sem. hrs.**

- **Exercise Science Curriculum** ..... **43 sem. hrs.**

Required Courses (43 hrs.)

PHED	1100	Fitness & Wellness	2
PHED	1121	Intro. Sem. in Human Movement	2
PHED	2211	Anatomy and Physiology	4
PHED	2212	Physiology of Exercise	3
PHED	3313	Biomechanics	3
PHED	3316	Fitness Assessment & Exercise Prescription	3
PHED	3318	Sports Social Psychology	2
PHED	3320	Lifespan Motor Development	3
PHED	4400	Research Methods	3
PHED	4410	Research Design Seminar	3
PHED	4420	Exercise Science Internship	3
HLTA	1150	Introduction to Health	3
FOSM	1110	Nutrition	3
SAFE	2200	Accident Analysis & Emergency Care	2
CHEM	1101	General Chemistry I	4

Exercise Science Major: Recommended Course Sequence

This schedule covers required classes for the major. Students must remember to schedule Liberal Studies Requirements, major electives and free electives as well.

FIRST YEAR		SECOND YEAR	
First Semester	*Second Semester*	*First Semester*	*Second Semester*
HLTA 1150	SOCY 1110	PHED 2211	PHED 3313
SCIE 1199		CHEM 1101	FOSM 1100
PHED 1100		PSYC 1101	
PHED 1121		SAFE 2200	

THIRD YEAR		FOURTH YEAR	
First Semester	*Second Semester*	*First Semester*	*Second Semester*
PHED 2212	PHED 3316	PHED 4400	PHED 4410
	PHED 3318		PHED 4420
	PHED 3320		

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

HLTA	1150	Intro. to Health	3
SCIE	1199	Human Biology	4
MATH	1107	Fund. Concepts of Math	3
ENGL	1104	Written English	3
PHED	1121	Intro. to Human Movement	2
PHED	1100	Fitness & Wellness	2

FRESHMAN SECOND SEMESTER

Liberal Studies - Scientific Discovery elective			4
INFO	1100	Comp. Concepts & Appl.	3
SOCY	1110	Introductory Sociology	3
SPCH	1100	Intro. to Speech Communication	3
ENGL	1108	Written English II	3

SOPHOMORE FIRST SEMESTER

PHED	2211	Anatomy & Physiology	4
CHEM	1101	General Chemistry	4
PSYC	1101	Intro. to Psychology	3
Liberal Studies - Culture/Civilization Exploration elective			3
SAFE	2200	Acc. Analysis & Emer. Care	2

SOPHOMORE SECOND SEMESTER

Liberal Studies - Artistic/Creative/Interdisciplinary elective			4
FOSM	1100	Nutrition	3
Second Field Requirement			3
Liberal Studies - Culture/Civilization Exploration elective			3
PHED	3313	Biomechanics	3

JUNIOR FIRST SEMESTER

PHED	2212	Physiology of Exercise	3
2nd Field Requirement			3
2nd Field Requirement			3
2nd Field Requirement			3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
Liberal Studies - Culture/Civilization Exploration elective			3

JUNIOR SECOND SEMESTER

PHED	3318	Sport Social Psychology	3
PHED	3320	Lifespan Motor Development	3
PHED	3316	Fitness Assessment & P.	3
2nd Field Requirement			3
Liberal Studies Requirement - Writing Intensive Course			3

SENIOR FIRST SEMESTER

PHED	4400	Research Methods	3
2nd Field Requirement			3
2nd Field Requirement			9

SENIOR SECOND SEMESTER

PHED	4410	Research Design	3
PHED	4420	Exer. Science Internship	3
2nd Field Requirement			9

MINOR IN EXERCISE SCIENCE ..... 20 sem. hrs.
Required Courses (20 hrs.)

PHED	1121	Introduction to Human Movement	2
PHED	2211	Anatomy & Physiology	4
PHED	2212	Physiology of Exercise	3
PHED	3313	Biomechanics	3
PHED	3316	Fitness Assessment	3
PHED	3318	Sport Social Psychology	2
PHED	4400	Research Methodology	3

HEALTH EDUCATION

The Bachelor of Arts in Education degree offers a subject specialization in Health Education, grades 5-Adult. Teacher candidates must meet all requirements for entry into the teacher education program and achieve a 2.75 GPA in the health education coursework prior to student teaching. See the beginning of this chapter for further information on Liberal Studies Requirements for the BA in Education.

BACHELOR OF ARTS IN EDUCATION: HEALTH EDUCATION 5-ADULT TEACHING SPECIALIZATION ..... 128 sem. hrs.
Health Education Curriculum *(see below)* ..... 32 sem. hrs.
Liberal Studies Requirements ..... 45 sem. hrs.
Professional Education Courses ..... 33 sem. hrs.
Free Electives ..... 19 sem. hrs.

- **Health Education Curriculum ..... 32 sem. hrs.**
  Required Courses (32 hrs.)

HLTA	1150	Introduction to Health	3
HLTA	2200	Foundations of Health Education	2
HLTA	2202	Community & Environmental Health	3
HLTA	3310	School Health and Safety	3
HLTA	3325	Organizational and Planning Strategies in Health Education	3
HLTA	3370	Contemporary and Drug Behavior Issues	3
HLTA	4410	Seminar in Public Health Education	3
HLTA	4415	Human Sexuality	3
PHED	2211	Anatomy and Physiology	4
PHED	4431	Methods and Materials in Teaching Health and Physical Education	3
SAFE	2200	Accident Analysis & Emergency Care	2

Health Education Major: Recommended Course Sequence

This schedule covers required classes for the major. Students must remember to schedule Liberal Studies Requirements, major electives and free electives as well.

FIRST YEAR		SECOND YEAR	
First Semester	*Second Semester*	*First Semester*	*Second Semester*
HLTA 1150	PHED 1100	PHED 2211	EDUC 2201
SCIE 1199	HLTA 2200	EDUC 2200	HLTA 3310
		SAFE 2200	
		HLTA 2202	
THIRD YEAR		**FOURTH YEAR**	
First Semester	*Second Semester*	*First Semester*	*Second Semester*
HLTA 3325	HLTA 4415	HLTA 4410	EDUC 4495
HLTA 3370	EDUC 3331	PHED 4431	
EDUC 2202 (+ lab)		EDUC 3351 (+ lab)	
		EDUC 3352 (+ lab)	

HEALTH SCIENCE

The School of Education/Health and Human Performance offers a Bachelor of Science in Health Science and also a minor for students interested in pursuing a career in this area.

BACHELOR OF SCIENCE IN HEALTH SCIENCE ..... 128 sem. hrs.
Health Science Curriculum (see below) ..... 46 sem. hrs.
Liberal Studies Requirements ..... 44 sem. hrs.
Free Electives ..... 31 sem. hrs.

- **Health Science Curriculum ..... 46 sem. hrs.**
  Required Courses (46 hrs.)

HLTA	1150	Introduction to Health	3
HLTA	2202	Community & Environmental Health	3
HLTA	3370	Contemporary & Drug Behavior Issues	3
HLTA	4410	Seminar in Public Health Education	3
HLTA	4415	Human Sexuality	3
HLTA	4450	Field Practicum in Public Health	4
BUSN	3310	Statistics	3
CHEM	1101	General Chemistry I	4
CHEM	1102	General Chemistry II	4
INFO	1100	Computer Concepts and Applications	3
PHED	2211	Anatomy and Physiology	4
PSYC	2230	Social Psychology	3
PSYC	2250	Community Psychology	3
SOCY	2200	Social Problems	3

Health Science Major: Recommended Course Sequence

This schedule covers required classes for the major. Students must remember to schedule Liberal Studies Requirements, major electives and free electives as well.

FIRST YEAR		SECOND YEAR	
First Semester	*Second Semester*	*First Semester*	*Second Semester*
HLTA 1150	SOCY 1110	PHED 2211	CHEM 1101
SCIE 1199	HLTA 2202	HLTA 3370	FOSM 1100
PHED 1100		PSYC 1101	PSYC 2230
			SOCY 2200
THIRD YEAR		**FOURTH YEAR**	
First Semester	*Second Semester*	*First Semester*	*Second Semester*
CHEM 1102	HLTA 4415	HLTA 4410	HLTA 4450
PSYC 2250		BUSN 3310	

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

HLTA	1150	Intro. to Health	3
SCIE	1199	Human Biology	4
MATH	1107	Fund. Concepts of Math	3
ENGL	1104	Written English	3
SPCH	1100	Intro. to Speech Communication	3
PHED	1100	Fitness & Wellness	2

FRESHMAN SECOND SEMESTER

Liberal Studies - Scientific Discovery elective			4
INFO	1100	Comp. Concepts & Appls.	3
SOCY	1110	Introductory Sociology	3
HLTA	2202	Comm. & Envir. Health	3
ENGL	1108	Written English II	3

SOPHOMORE FIRST SEMESTER

PHED	2211	Anatomy & Physiology	4
HLTA	3370	Cont. & Drug Beh. Issues	3
PSYC	1101	Intro. to Psychology	3
Liberal Studies - Culture/Civilization Exploration elective			3
2nd Field Requirement			3

SOPHOMORE SECOND SEMESTER

CHEM	1101	General Chemistry	4
FOSM	1100	Nutrition	3
PSYC	2230	Social Psychology	3
Liberal Studies - Culture/Civilization Exploration elective			3
SOCY	2200	Social Problems	3

JUNIOR FIRST SEMESTER

CHEM	1102	General Chemistry	4
2nd Field Requirement			3
2nd Field Requirement			3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3
PSYC	2250	Community Psychology	3

JUNIOR SECOND SEMESTER

HLTA	4415	Human Sexuality	3
2nd Field Requirement			3
2nd Field Requirement			3
2nd Field Requirement			3
Liberal Studies - Culture/Civilization Exploration elective			3
Liberal Studies - Artistic/Creative/Interdisciplinary elective			3

SENIOR FIRST SEMESTER

HLTA	4410	Seminar in Public Health	3
BUSN	3310	Statistics	3
2nd Field Requirement			9
Liberal Studies - Intensive Writing Course			3

SENIOR SECOND SEMESTER

HLTA	4450	Field Prac. in Public Health	4
2nd Field Requirement			12

MINOR IN HEALTH SCIENCE ..... 19 sem. hrs.
Required Courses (19 hrs.)

HLTA	1150	Introduction to Health	3
HLTA	2202	Community and Environmental Health	3
HLTA	3370	Contemporary and Drug Behavior Issues	3
HLTA	4410	Seminar in Public Health Education	3
HLTA	4415	Human Sexuality	3
HLTA	4450	Field Practicum in Public Health	4

PHYSICAL EDUCATION

The Bachelor of Arts in Education degree offers a subject specialization in Physical Education, grades Pre K-Adult. The Physical Education Program is designed to stimulate the development of competencies in the application, analysis and syntheses of concepts related to effective performance of sport and human movement activities. Teacher candidates must meet all requirements for entry into the teacher education program and achieve a 2.75 GPA in the physical education coursework prior to student teaching.

See the beginning of this chapter for further information on Liberal Studies Requirements for the BA in Education.

BACHELOR OF ARTS IN EDUCATION: TEACHING SPECIALIZATION IN PHYSICAL EDUCATION PRE K-ADULT ..... 129 sem. hrs.
Physical Education Curriculum *(see below)*..... 43 sem. hrs.
Liberal Studies Requirements ..... 45 sem. hrs.
Professional Education Courses ..... 33 sem. hrs.
Free Electives ..... 8 sem. hrs.

- **Physical Education Curriculum ..... 43 sem. hrs.**
  Required Courses (43 hrs.)

PHED	1121	Intro. Sem. in Human Movement	2
PHED	2211	Anatomy and Physiology	4
PHED	2212	Physiology of Exercise	3
PHED	2223	Evaluation of Instruction in Sport	2
PHED	2232	Basic Aquatics	2
-or-			
PHED	2233	Advanced Aquatics-Lifeguarding	2
PHED	2234	Individual and Dual Sports I	2
PHED	2235	Team Sports I	2
PHED	2236	Team Sports II	2
PHED	2239	Individual and Dual Sports II	2
PHED	2240	Outdoor Leisure Activities	2
PHED	3313	Biomechanics	3
PHED	3318	Sport Social Psychology	2
PHED	3323	Early Psychomotor Curriculum	3
PHED	3325	Psychomotor Analysis Lab	3
PHED	3343	Adapted Physical Education Activities	2
PHED	2241	Gymnastics and Dance	2
-or-			
RECR	1146	Folk and Square Dance	2
PHED	1100	Fitness & Wellness	2
PHED	4431	Methods and Materials in Teaching Health and Physical Education	3
SAFE	2200	Accident Analysis & Emergency Care	2

RECREATIONAL LEADERSHIP (MINOR ONLY)

The curriculum of this minor provides a foundation of recreation philosophy, principles and objectives. Field experiences, which are designed to provide practical experience in a variety of recreational settings with various clientele, are included. Elective classes in sport coaching, outdoor recreation, and aquatic activities are provided.

MINOR IN RECREATIONAL LEADERSHIP ..... 25 sem. hrs.
Required Courses (21 hrs.)

PHED	2234	Individual and Dual Sports I	2
RECR	1141	Introduction to Recreation	3
RECR	1143	Outdoor Recreation	3
RECR	1144	Group Leadership	3
RECR	1145	Program Planning and Organization	3
RECR	1146	Folk and Square Dance	2
RECR	3301	Day Camp Administration *(Summer Sessions Only)*	3
SAFE	2200	Accident Analysis & Emergency Care	2

Electives (4 hrs.)
(Choose one course from each group.)

Group I

PHED	2232	Basic Aquatics	2
PHED	2233	Advanced Aquatics-Lifeguarding	2
PHED	3381	Water Safety Instructors	2

Group II

PHED	2235	Team Sports I	2
PHED	2236	Team Sports II	2

FAMILY AND CONSUMER SCIENCES

Family and Consumer Sciences is the study of interrelated areas which prepare individuals for various professional careers. The BS in Family and Consumer Sciences, as well as the BA in Education, are degrees granted from programs which include the arts and the sciences. The programs focus on improving the quality of life for the individual and for the family. A broad-based curriculum addresses the needs of individuals and families through education in the areas of clothing and textiles, human development and the family, foods and nutrition, management in the family and consumer economics, and housing and home furnishings. Family and Consumer Sciences provide a strong interdisciplinary base to prepare individuals and families to meet the challenges of contemporary society.

Careers available for graduates of this program include human service in the community, in business (private and public), in extension, and in government. It also serves as a background degree for a student who desires to do graduate work and become a specialist in child development foods and nutrition, consumerism and management, clothing and textiles, housing and interior design, and fashion merchandising. The curriculum for the BS in Family and Consumer Sciences, which includes the related associate degree, offers specializations in:

Family and Consumer Specialist
Child Development
Fashion Merchandising
Hospitality and Restaurant Management
Interior Design

BACHELOR OF SCIENCE IN FAMILY & CONSUMER SCIENCES ..... 128 sem. hrs.
Family & Consumer Sciences Specialist ..... 48 sem. hrs.
Liberal Studies Requirements ..... 45 sem. hrs.
Free Electives/Minor ..... 35 sem. hrs.

• Family & Consumer Sciences Specialist ..... 128 sem. hrs.
Required Courses 48 sem. hrs.

APPD	1101	Principles of Clothing Construction	3
APPD	1103	Clothing and Culture	3
APPD	2210	Textiles	3
APPD	2250	Design in Home Furnishings	3
EC	2240	Intro to Infant/Toddler Development	3
FACS	3310	Family Life Education	3
FACS	3312	Consumer Economics	3
FACS	3315	Management of the Family	3
FACS	3318	Management Problems of the Family	3
FACS	3320	Housing in Society	3
FACS	3330	Intro to Preschooler Development	3
FACS	3331	Adolescent Development	3
FACS	4400	Senior Seminar I	1
FACS	4401	Senior Seminar II	1
FOSM	1110	Nutrition	3
FOSM	2201	Principles of Food Selection & Prep.*	3
FOSM	2202	Principles of Quantity Food Prod.*	3
FOSM	2203	Principles of Food Sel. & Prep. Lab*	1
FOSM	2204	Principles of Quantity Food Prod. Lab*	1

**Consult prerequisites*

Electives/Minor (35 hrs.)

Family & Consumer Sciences Major: Recommended Course Sequence

This schedule covers required classes for the major. Students must remember to schedule Liberal Studies Requirements, major electives, free electives, and/or minor.

FIRST YEAR		SECOND YEAR	
First Semester	*Second Semester*	*First Semester*	*Second Semester*
APPD 1103	APPD 1101	FOSM 2200	FOSM 2202
	APPD 2210	EC 2240	APPD 2250
THIRD YEAR		**FOURTH YEAR**	
First Semester	*Second Semester*	*First Semester*	*Second Semester*
FOSM 1110	FACS 3318	FACS 3310	FACS 3312
FACS 3315	FACS 3330	FACS 3320	FACS 3331
		FACS 4400	
		FACS 4401	

CHILD DEVELOPMENT

The Family and Consumer Sciences Bachelor of Science Degree with a Child Development Specialization at Fairmont State University is a 2 + 2 program in collaboration with Pierpont Community & Technical College. Students who complete the associate's degree in Applied Design may continue through the University to complete the degree without loss of credit. It includes the study of the growth and development of young children as well as planning, preparation and implementation of appropriate curriculum for quality early childhood educational programs. Students have the opportunity to gain practical experience working with children at the campus Laboratory Preschool and in early childhood programs within the community. The outstanding laboratory preschool has a quality program that meets the guidelines set by the National Association for the Education of Young Children and is licensed by the West Virginia Department of Health and Human Resources. The child development specialization has a clinical and internship to allow the students supervisory and director experiences for the bachelor program. This program prepares individuals to work as directors in child care facilities, Head Start Centers, and private preschools or nursery schools and as professionals in the field of child development. Other employment opportunities include positions in public and private organizations providing services and assistance to families and children.

BACHELOR OF SCIENCE IN FAMILY & CONSUMER SCIENCES ..... 128 sem. hrs.
AAS Degree, Early Childhood ..... 64 sem. hrs.
Child Development Specialization ..... 32 sem. hrs.
Liberal Studies Requirements ..... 32 sem. hrs.

• Child Development Specialization ..... 32 sem. hrs.

FACS	3315	Management of the Family	3
FACS	3335	Parenting	3
FACS	3383	Social & Emotional Develop of Child	3
FACS	4400	Senior Seminar I	1
FACS	4401	Senior Seminar II	1
FACS	4492	Child Development Internship	4
Related Field Free Electives			17

Recommended Electives

APPD	1101	Principles of Clothing Construction	3
APPD	1103	Clothing and Culture	3
APPD	2210	Textiles	3

APPD	2250	Design in Home Furnishings	3
FACS	3310	Family Life Education	3
FACS	3312	Consumer Economics	3
FACS	3318	Management Problems of the Family	2
FACS	3320	Housing in Society	3
FACS	3330	Intro to Preschooler Development	3
FACS	3331	Adolescent Development	3

FASHION MERCHANDISING

The Family and Consumer Sciences Bachelor of Science Degree with a Fashion Merchandising Specialization at Fairmont State University is a 2 + 2 program in collaboration with Pierpont Community & Technical College. Students who complete the associate's degree in Applied Design may continue through the University to complete the degree without loss of credit. This articulation agreement has proven to be an excellent opportunity for students to further their study in Fashion Merchandising with additional courses in Liberal Studies, Family and Consumer Sciences and a minor in Retail Management at Fairmont State University. Students completing the Bachelor's program can begin their professional careers as buyers, retail managers, visual merchandisers or fashion consultants and learn about business aspects of the industry such as advertising, marketing, and retail and wholesales sales, fashion reporting, and other textile- and clothing-related positions.

BACHELOR OF SCIENCE IN FAMILY & CONSUMER SCIENCES ..... 128 sem. hrs.
AAS Degree, Applied Design ..... 64 sem. hrs.
Fashion Merchandising Specialization ..... 35 sem. hrs.
Liberal Studies Requirements ..... 29 sem. hrs.

• Fashion Merchandising Specialization ..... 35 sem. hrs.

APPD	3375	Professional Pract in Applied Design	4
BUSN	3320	International Business	3
ECON	2201	Economic Principles and Problems I	3
FACS	4400	Senior Seminar I	1
FACS	4401	Senior Seminar II	1
MGMT	3308	Human Resource Management	3
MKGT	2204	Principles of Marketing	3
MKGT	2205	Salesmanship & Sales Management	3
MKGT	3305	Distribution & Logistics Management	3
MKGT	3320	Advertising & Sales Promotion	3
Related Field Free Electives			8

Recommended Electives

APPD	2250	Design in Home Furnishings	3
EC	2240	Infant and Toddler Development	3
FACS	3310	Family Life Education	3
FACS	3312	Consumer Economics	3
FACS	3315	Management of the Family	3
FACS	3318	Management Problems of the Family	2
FACS	3320	Housing in Society	3
FACS	3330	Intro to Preschooler Development	3
FACS	3331	Adolescent Development	3
FOSM	1110	Nutrition	3

HOSPITALITY AND RESTAURANT MANAGEMENT

The Family and Consumer Sciences Bachelor of Science Degree with a Hospitality and Restaurant Management Specialization at Fairmont State University is a 2 + 2 program in collaboration with Pierpont Community & Technical College. Students who complete the associate's degree in Applied Design may continue through the University to complete the degree without loss of credit. This articulation agreement has proven to be an excellent opportunity for students to further their study in Hospitality and Restaurant Management with additional courses in Liberal Studies, Management, Marketing, Business, and Family and Consumer Sciences at Fairmont State University. The students have an opportunity to advance their managerial skills in a internship at a hospitality and/or restaurant business. Students completing the Bachelor's program can begin their professional careers in managerial, supervisory and/or owner positions in the hospitality and restaurant program.

BACHELOR OF SCIENCE IN FAMILY & CONSUMER SCIENCES ..... 128 sem. hrs.
AAS Degree, Food Service Management ..... 64 sem. hrs.
Hospitality & Rest Man Specialization ..... 35 sem. hrs.
Liberal Studies Requirements ..... 29 sem. hrs.

• Hospitality & Restaurant Management Specialization ..... 35 sem. hrs.

BUSN	3306	Business Law I	3
BUSN	3320	International Business	3
FACS	4400	Senior Seminar I	1
FACS	4401	Senior Seminar II	1
FOSM	3323	Advanced Quantity Foods	3
FOSM	3328	Food Purch/Menu Plan/Cost Controls	3
MGMT	3308	Human Resource Management	3
Related Field Free Electives			8

Recommended Electives

APPD	1101	Principles of Clothing Construction	3
APPD	1103	Clothing and Culture	3
APPD	2210	Textiles	3
APPD	2250	Design in Home Furnishings	3
EC	2240	Infant and Toddler Development	3
FACS	3310	Family Life Education	3
FACS	3312	Consumer Economics	3
FACS	3315	Management of the Family	3
FACS	3318	Management Problems of the Family	2
FACS	3320	Housing in Society	3
FACS	3330	Intro to Preschooler Development	3
FACS	3331	Adolescent Development	3

INTERIOR DESIGN

The Family and Consumer Sciences Bachelor of Science Degree with an Interior Design Specialization at Fairmont State University is a 2 + 2 program in collaboration with Pierpont Community & Technical College. Students who complete the associate's degree in Applied Design may continue through the University to complete the degree without loss of credit. This articulation agreement has proven to be an excellent opportunity for students to further their study in Interior Design with additional courses in Liberal Studies, architectural design, Family and Consumer Sciences, and advanced AutoCAD at Fairmont

State University. The student chapter of ASID (American Society of Interior Designers) at Pierpont Community & Technical College offers additional development experiences for students who want to pursue professional certification. This program, at both the associate and bachelor levels, meets all academic requirements for ASID professional registration. Students completing the Bachelor's program can begin their professional careers in residential and/or commercial design work. Students have various opportunities to explore and apply principles and elements of interior design and to create functional and aesthetic interior environments.

BACHELOR OF SCIENCE IN FAMILY & CONSUMER SCIENCES ..... 128 sem. hrs.
AAS Degree, Applied Design ..... 64 sem. hrs.
Interior Design Specialization ..... 35 sem. hrs.
Liberal Studies Requirements ..... 29 sem. hrs.

• **Interior Design Specialization ..... 35 sem. hrs.**

APPD	3375	Professional Pract in Applied Design	4
ARCH	1160	Architectural History II	3
ARCH	2200	Graphics	3
ARCH	2210	Design I	4
ARCH	2250	Design II	4
ARCH or DRFT Elective			3
FACS	3320	Housing in Society	3
FACS	4400	Senior Seminar I	1
FACS	4401	Senior Seminar II	1
Related Field Free Electives			9

Recommended Electives

APPD	1101	Principles of Clothing Construction	3
APPD	1103	Clothing and Culture	3
EC	2240	Infant and Toddler Development	3
FACS	3310	Family Life Education	3
FACS	3312	Consumer Economics	3
FACS	3315	Management of the Family	3
FACS	3318	Management Problems of the Family	2
FACS	3330	Intro to Preschooler Development	3
FACS	3331	Adolescent Development	3
FOSM	1110	Nutrition	3

FAMILY AND CONSUMER SCIENCES EDUCATION

The Family and Consumer Sciences (FACS) Education is a Comprehensive 5-Adult BA in Education Degree. It is a discipline with five areas of study within the major. They are Clothing and Textiles, Human Development and the Family, Foods and Nutrition, Management and Consumer Economics, and Housing and Furnishings.

FACS is an area of education that is vitally needed in the school systems. By assisting middle and secondary students with life skills, management, parenting, nutrition, clothing, housing, and culture, this field helps individuals, families, and communities to grow and be a productive member of society. This field is very rewarding because you deal with all aspects and components of the family. Because each day is different and the adolescents need to be assisted in their life choices and future personal lives, it becomes a very involved, challenging, and extensive area to teach.

Family and Consumer Sciences have a large variety of career opportunities for individuals. An individual can expand the areas of interest and find many different types of careers. The career may be as a teacher in a formal classroom from the 5 grade to adult. The career may also be outside the classroom in business, industry, or education. The following career titles are just a few of the many areas one could pursue for one's life work. The careers are:

Teacher	Consumer Specialist
Designer	Chef
Manager	Food Scientist
Sales Personnel	Extension Agent
Visual Artist	Child Development
Fashion Apparel	Director

BACHELOR OF ARTS IN EDUCATION – COMPREHENSIVE FAMILY & CONSUMER SCIENCES GRADES 5-ADULT ..... 128 sem. hrs.
Family & Consumer Sciences Education ..... 51 sem. hrs.
Liberal Studies Requirements ..... 45 sem. hrs.
Professional Education Courses ..... 33 sem. hrs.

• **Family & Consumer Sciences Education ..... 128 sem. hrs.**

APPD	1101	Principles of Clothing Construction	3
APPD	1103	Clothing and Culture	3
APPD	2210	Textiles	3
APPD	2250	Design in Home Furnishings	3
EC	2240	Intro to Infant/Toddler Development	3
FACS	3310	Family Life Education	3
FACS	3312	Consumer Economics	3
FACS	3315	Management of the Family	3
FACS	3318	Management Problems of the Family	3
FACS	3320	Housing in Society	3
FACS	3331	Adolescent Development	3
FACS	3332	Child Development Problems	3
FACS	4400	Senior Seminar I	1
FACS	4401	Senior Seminar II	1
FACS	4431	Methods & Materials in Teaching Family and Consumer Sciences	3
FOSM	1110	Nutrition	3
FOSM	2201	Principles of Food Selection & Prep.*	3
FOSM	2202	Principles of Quantity Food Prod.*	3
FOSM	2203	Principles of Food Sel. & Prep. Lab*	1
FOSM	2204	Principles of Quantity Food Prod. Lab*	1

**Consult prerequisites*

MINOR IN FAMILY AND CONSUMER SCIENCES ..... 22 sem. hrs.

APPD	1103	Clothing and Culture	3 sem. hrs.
FACS	3310	Family Life Education	3
FACS	3312	Consumer Economics	3
FACS	3320	Housing in Society	3
FACS	3330	Intro to Preschooler Development	3
FOSM	1110	Nutrition	3
FOSM	2201	Principles of Food Selection & Prep.*	3
FOSM	2203	Principles of Food Sel. & Prep. Lab*	1

**Consult prerequisites*

MINOR IN EDUCATION

MINOR FOR B.S., B.A. DEGREE

The School of Education/Health and Human Performance offers a minor for interested bachelor's degree students. It is a valuable option for students who have an interest in teaching in their major field (e.g. math, biology, etc.) in the future but do not wish to pursue teacher certification at this time. Students can complete their major with an education minor during the normal four-year sequence and then return to complete the requirements for becoming licensed to teach in their respective field(s).

Teacher candidates are advised to complete the appropriate Special Methods course in addition to the minor if available, (e.g., Math 4431 for a Math major, ENGL 4431 for an English major, etc.). All course prerequisites, including formal admission to teacher education, are required for the minor. Interested students should contact the Dean of Teacher Education, who serves as the advisor for the minor.

- **Minor in Education ..... 21 sem. hrs.**

Required Courses (21 hrs.)

EDUC	2200	Introduction to Education	3
EDUC	2201	Instructional Technology	3
EDUC	2202	Human Growth and Development	3
EDUC	2202L	Laboratory - Clinical I	1
EDUC	3331	Reading in the Content Areas	3
EDUC	3351	Human Exceptionalities & Cultural Diversity	3
EDUC	3351L	Laboratory - Clinical II	1
EDUC	3352	Educational Psychology	3
EDUC	3352L	Laboratory - Clinical II	1

Additional Programs

SPORT COACHING

This sequence of courses in Sport Coaching is designed to meet the need in the secondary schools for qualified athletic coaches. It is NOT a B.S. major or minor program, nor is it a separate certificate teaching degree program.

- **Course Requirements ..... 15 sem. hrs.**

PHED	3355	Scientific Foundations of Sport Coaching	4
PHED	3356	Administration & Coaching of Sport	3
PHED	3357	Medical/Legal Aspects of Sport Coaching	2
PHED	3358	Techniques of Sport Coaching	6

SCHOOL NURSE PROGRAM - NURSING AND ALLIED HEALTH

The School Nurse program is open to students who currently possess RN licensure *(Bachelor's Degree)* or plan to earn it. This option licenses interested parties to serve as a school nurse in a Pre K-Adult setting. Interested persons should contact the Dean of the School of Education or Dean of the School of Nursing and Allied Health. The requirements are as follows.

1.) Licensure as a Registered Nurse *(Bachelor's Degree)*
2.) EDUC 2200 - Introduction to Education
3.) Acceptable scores on the PPST Reading, Writing and Mathematics tests
4.) Public school practicum

School of Fine Arts

■ Peter Lach, Dean, School of Fine Arts
304 Wallman Hall / (304) 367-4219
plach@fairmontstate.edu

FACULTY

BENNETT, MARY LYNNE (2003)
Assistant Professor of Music
Graduate Faculty

BOGGESS, JENNIFER H. (2002)
Associate Professor of Art

BOGGESS, LYNN H. (1990)
Professor of Art

EDWARDS, CONSTANCE (2005)
Assistant Professor of Music

GREENHAM, JEFF S. (2006)
Visiting Assistant Professor of Art

HUFFMAN, VALARIE A. (2003)
Director of Bands
Assistant Professor of Music

INGMAN, JEFFREY (2006)
Assistant Professor of Theatre

KIRK, FRANCENE (2000)
Assistant Professor of Speech

LACH, PETER (2002)
Dean of Fine Arts
Professor of Theatre

MILD, ROBERT (1988)
Professor of Speech Communication

O'CONNOR, JOHN E. (1998)
Professor of Theatre

PATTERSON, ANNE L. (2004)
Provost and Vice President for Academic Affairs
Professor of Music

POLAND, JEFFREY (1988)
Professor of Music

SCHOOLEY, JOHN H. (1970)
Professor of Music

SMIGOCKI, STEPHEN (1972)
Professor of Art

SNYDER, R. BARRY (1967)
Professor of Art

SNYDER, TROY (2005)
Assistant Professor of Theatre

All programs in Art, Music, and Speech Communication and Theatre have a strong performance orientation. Students earning a major in these areas of study must periodically demonstrate, through public performance, mastery of concepts and content studied.

ART

The Fairmont State University Department of Art provides a program of study for the preparation of teachers in the visual arts, leading to the B.A. degree in Education, a 2 + 2 program leading to a B.S. degree in a Graphics/Fine Arts program, and a minor in a non-teaching degree. The art curriculum and activities are designed to provide the highest level of professional education for the art teacher, the creative artist and the scholar of the arts, and to play a major role in the cultural life of the college campus and the community. Courses marked with an asterisk must be completed before admission to the Initial Performance Practicum.

BACHELOR OF ARTS IN EDUCATION: TEACHING SPECIALIZATION IN ART GRADES PRE K-ADULT ..... 139 sem. hrs.
Art Curriculum *(see below)* ..... 61 sem. hrs.
Liberal Studies Requirements ..... 45 sem. hrs.
Professional Education Courses ..... 33 sem. hrs.

• **Art Curriculum** ..... 61 sem. hrs.
Required Courses (55 hrs.)

ART*	1140	Design I: 2D	3
ART*	1141	Design II: 3D	3
ART*	1142	Foundations of Drawing	3
ART*	2241	Drawing from Life	3
ART*	2261	Foundations of Painting	3
ART	2262	Painting II	3
ART	2283	Foundations of Sculpture	3
ART	2284	Sculpture II	3
ART	3341	Printmaking I	3
ART	3355	Problems in Teaching Art I	2
ART	3356	Problems in Teaching Art II	2
ART	3363	Intermediate Water Media	3
ART*	3374	Art History from Prehistory to 1450	3
ART*	3376	Art History from 1450 to 1750	3
ART*	3378	Art History from 1750 to 1950	3
ART*	3380	Art History since 1950	3
ART	3383	Pottery I	3
ART	3384	Pottery II	3
ART*	4431	Methods and Materials in Teaching Art	3
ART	4470	Senior Exhibit	1

Electives (6 hrs.)

ART	1199	Special Topics	3
ART	2230	Gallery Management	3
ART	3342	Printmaking II	3
ART	3361	Intermediate Landscape Painting	3
ART	3362	Intermediate Figure Painting	3
ART	3364	Advanced Water Media	3
ART	4461	Advanced Landscape Painting	3
ART	4462	Advanced Figure Painting	3
ART	4463	Advanced Painting Concepts	3
ART	4464	Pottery III	3
ART	4465	Sculpture III	3

ART	4467	Area Studies I	3
ART	4468	Area Studies II	3
ART	4469	Area Studies III	3

• Professional Education ..... 33 sem. hrs

EDUC	2200	Introduction to Education	3
EDUC	2201	Instructional Technology	3
EDUC	2202	Human Growth and Development	3
EDUC	2202L	Laboratory - Clinical I	1
EDUC	3331	Reading in the Content Areas	3
EDUC	3351	Human Exceptionalities & Cultural Diversity	3
EDUC	3351L	Laboratory - Clinical II	1
EDUC	3352	Educational Psychology	3
EDUC	3352L	Laboratory - Clinical II	1
EDUC	3395	Secondary Classroom Org. & Practices	4
EDUC	4495	Secondary Student Teaching/Clinical III	8

BACHELOR OF ARTS IN EDUCATION: TEACHING SPECIALIZATION IN ART GRADES 5-ADULT ..... 128 sem. hrs.
Art Curriculum *(see below)* **..... 45 sem. hrs.**
Liberal Studies Requirements ..... 45 sem. hrs.
Professional Education Courses ..... 33 sem. hrs.
Free Electives ..... 6 sem. hrs.
Second Specialization Required

• Art Curriculum ..... 45 sem. hrs.
Required Courses (44 hrs.)

ART*	1140	Design I: 2D	3
ART*	1141	Design II: 3D	3
ART*	1142	Foundations of Drawing	3
ART	2241	Drawing from Life	3
ART*	2261	Foundations of Painting	3
ART	2283	Foundations of Sculpture	3
ART	3341	Printmaking I	3
ART	3356	Problems in Teaching Art II	2
ART	3363	Intermediate Water Media	3
ART	3374	Art History from Prehistory to 1450	3
ART	3376	Art History from 1450 to 1750	3
ART	3378	Art History from 1750 to 1950	3
ART	3380	Art History since 1950	3
ART	3383	Pottery I	3
ART*	4431	Methods and Materials in Teaching Art	3
ART	4470	Senior Exhibit	1

• Professional Education ..... 33 sem. hrs.

EDUC	2200	Intro. to Education	3
EDUC	2201	Instructional Technology	3
EDUC	2202	Human Growth and Development	3
EDUC	2202L	Laboratory - Clinical I	1
EDUC	3331	Reading in the Content Areas	3
EDUC	3351	Human Exceptionalities and Cultural Diversity	3
EDUC	3351L	Laboratory - Clinical II	1
EDUC	3352	Educational Psychology	3
EDUC	3352L	Laboratory - Clinical II	1
EDUC	3395	Secondary Classroom Org. & Practices	4
EDUC	4495	Secondary Student Teaching/Clinical III	8

MINOR IN ART ..... 24 sem. hrs.
History of Art Courses ..... 6 sem. hrs.
(Choose six hours of art courses.)
Studio Work Courses ..... 18 sem. hrs.
(Choose 18 hours of studio work courses.) (Pre-requisite required)

MINOR IN ART HISTORY ..... 18 hours
Required Courses (6 hrs.)

ART	1140	Design I: 2D	3
ART	1142	Foundations of Drawing	3

Select (12 hrs.)

ART	1199	Special Topics	3
ART	2230	Gallery Management	3
ART	3374	Art History from Prehistory to 1450	3
ART	3376	Art History from1450-1750	3
ART	3378	Art History from1750-1950	3
ART	3380	Art History since 1950	3

GRAPHICS/FINE ARTS

This is a 2+2 program, in which successful completion of the associate degree in Graphics Technology (see C&TC catalog for description), with a specialization in Commercial Design, constitutes the first two years of this bachelor's degree program. It is designed to provide training and skills beyond the associate degree level for the graphic artist, layout artist, illustrator, advertising designer, and for those positions in the printing industry that combine the skills of graphic designer and artist.
Fairmont State students will also be skilled enough to compete with graduates of most colleges for graduate studies in graphic art or studio art.

BACHELOR OF ARTS IN GRAPHICS/FINE ARTS ..... 138 sem. hrs.
Graphics/Fine Art Curriculum *(see below)* **..... 82 sem. hrs.**
Liberal Studies Requirements ..... 56 sem. hrs.

• Graphics/Fine Arts Curriculum ..... 82 sem. hrs.
Required Courses (73 hrs.)

ART	1140	Design I: 2D	3
ART	1141	Design II: 3D	3
ART	1142	Foundations of Drawing	3
ART	1199	Special Topics	3
ART	2241	Drawing from Life	3
ART	2261	Foundations of Painting	3
ART	2283	Foundations of Sculpture	3
ART	3341	Printmaking I	3
ART	3363	Intermediate Water Media	3
ART	3378	Art from 1750 to 1950	3
ART	3380	Art History since 1950	3
ART	4467	Area Studies I	3
ART	4468	Area Studies II	3
DRFT	1100	Engineering Graphics	3
ENGL	1109	Technical Report Writing	3
GRAP	1100	Graphic Communications Processes	3
GRAP	2200	Introduction to Desktop Publishing	3
GRAP	2210	Graphics-Methods and Materials	3
GRAP	2225	Basic Photography	3
GRAP	2230	Layout and Design	3
GRAP	2250	Graphics Practicum	4
JOUR	2240	Reporting	3

JOUR	3312	The Publication Process	3
OFAD	1100	Microcomputer Keyboarding	3

Electives (9 hrs.)

ART	3342	Printmaking II	3
GRAP	1150	Computer Applications to Graphics	3
GRAP	2235	Layout and Design II	3
GRAP	2255	Advanced Image Transfer	3
GRAP	2265	Estimating & Cost Analysis	3
GRAP	2270	Screen Printing Techniques	3
GRAP	2280	Electronic Publishing	3
GRAP	3310	Advanced Photography	3
GRAP	4410	Special Topics-Graphics	3

MODEL SCHEDULE

FRESHMAN FIRST YEAR

GRAF	1100	Graphic Communication Processes	3
ART	1141	Design I: 2D	3
ART	1142	Foundations of Drawing	3
GRAF	1150	Computer App. to Graphics	3
SPCH	1100	Intro. to Speech Communication	3
ENGL	1104	Written English	3

FRESHMAN SECOND SEMESTER

GRAF	2200	Intro. to Desktop Publishing	3
-or-			
OADM	2250	Desktop Publishing	3
ENGL	1108	Written English II	3
ART	1141	Design II: 3D	3
ART	2241	Drawing from Life	3

SOPHOMORE FIRST SEMESTER

GRAF	2225	Basic Photography	3
GRAF	2230	Graphics Design	3
GRAF	1125	Multimedia Concepts	3
ART elective			3
DRFT	1100	Engineering Drafting	3

SOPHOMORE SECOND SEMESTER

GRAF elective			3
GRAF	2250	Graphics Practicum	4
INFO	1100	Comp. Concepts & Appls.	3
MATH	1107	Fundamental Concepts	3
Liberal Studies - Society/Human Interaction elective			3

JUNIOR FIRST SEMESTER

ART	2261	Foundations of Painting	3
ART	2283	Foundations of Sculpture	3
ENGL	Lit.		3
Liberal Studies			3
Liberal Studies			3

JUNIOR SECOND SEMESTER

ART	3363	Intermediate Water Media	3
ART	3341	Printmaking I	3
ENGL	Lit.		3
Liberal Studies			3
Liberal Studies			3

SENIOR FIRST SEMESTER

JOUR	2240	Reporting	3
JOUR	3312	The Publishing Process	3
GRAP Elective			3
Elective			3

SENIOR SECOND SEMESTER

Liberal Studies	3
ART elective	3
ART elective	3
Elective	3

MUSIC

The Music Department offers a minor in music for the Bachelor of Arts Degree and a Comprehensive (Pre K-Adult) Music major under the Bachelor of Arts in Education Degree. The degree programs are organized to provide a thorough background for a music teaching or a professional career. Major applied areas are offered in vocal, instrumental (strings, woodwinds, brass and percussion), piano, and organ. See the Music Department Handbook for requirements of concert and recital attendance, applied levels, piano proficiency, ensemble participation, sophomore evaluation policy, senior recital procedure, instrument checkout policy, and model schedules.

The department provides excellent musical instruction for its students through a highly qualified professional staff of performing and teaching professors, a constantly improving and varied curriculum, and a series of sequential musical experiences and studies in all music degree programs. The department believes in exposing music students to many new and innovative educational and musical ideas as well as emphasizing the musical heritage of the past. Departmental organizations such as band, orchestra, choir, ensembles, stage band, and soloists participate regularly in productions, concerts, and activities of the college and have toured in West Virginia, the United States, and Europe.

Opportunities are provided for music students to attend numerous recitals, productions and other musical events on and off campus. Several professional and fraternal organizations are sponsored by the department, including a student chapter of MENC, ACDA, Kappa Kappa Psi, and Sigma Alpha Iota.

The Music Department is housed in Wallman Hall. It is well-equipped with musical instruments and materials, and its facilities include an electronic piano classroom, theory room, music education room, wired classrooms and a computer lab, listening library, instrumental and choral rehearsal rooms, 18 practice rooms with Smartmusic technology, nine studios and Wallman Hall Auditorium.

MINOR IN MUSIC ..... 24 sem. hrs.

Music minors are encouraged to enroll in applied lessons and ensembles for eight semesters. See the Music Department Handbook for more information.

Required Courses (16 hrs.)

MUSI	1101	Concerts, Recitals, and Seminars	0
MUSI	1104	Functional Piano I	1
MUSI	1105	Functional Piano II	1
MUSI	1109	Comprehensive Theory	4
MUSI	1110	Comprehensive Theory	4
MUSI	1139	Voice Class	1
MUSI	2206	Music Apprec. for Majors	3
MUSI	2245	Fundamentals of Conducting	2

Applied Lesson Instruction (4 hrs.)
Four semesters required. Select applied instrument or voice from the following:

MUSI	1107	Piano	1
MUSI	1141	Voice	1
MUSI	1175-1198	Instrument (see Courses of Instruction for instruments offered)	1
MUSI	2200	Violin	1
MUSI	2201	Viola	1
MUSI	2202	Cello	1
MUSI	2203	Bass Violin	1

Ensemble Participation (4 hrs.)
Four semesters required. Select from the following:

MUSI	1167	Collegiate Singers	1
MUSI	1168	Marching Band	2
MUSI	1169	Wind Ensemble	1
MUSI	1172	University-Community Orchestra	1

BACHELOR OF ARTS IN EDUCATION: TEACHING SPECIALIZATION IN MUSIC EDUCATION GRADES PRE-K-ADULT ..... 138 sem. hrs.
Music Curriculum *(see below)* **..... 70 sem. hrs.**
Liberal Studies Requirements ..... 35 sem. hrs.
Professional Education Courses ..... 33 sem. hrs.

• **Music Curriculum ..... 70 sem. hrs.**
Required Courses (35 hrs):

MUSI	1100	Intro to Music Education	1
MUSI	1101	Concerts, Recitals, and Seminars	0
MUSI	1109	Comprehensive Theory	4
MUSI	1110	Comprehensive Theory	4
MUSI	1111	Intro to Music Technology	3
MUSI	2206	Music Apprec. for Majors	3
MUSI	2209/10	Comprehensive Theory	8
MUSI	2245	Fundamentals of Conducting	2
MUSI	3309	Orchestration	2
MUSI	3313/14	Music History	6
MUSI	3347	Advanced Conducting	2

Ensemble Participation (7 hrs.)
Seven semesters required. Select from the following:

MUSI	1167	Collegiate Singers	1
MUSI	1168	Marching Band	1
MUSI	1169	Wind Ensemble	1
MUSI	1172	University-Community Orchestra	1

Applied Music (19 hrs.)

Major Instrument or Voice			7
MUSI	1104	Functional Piano I	1
MUSI	1105	Functional Piano II	1
MUSI	2204	Functional Piano III	1
MUSI	2205	Functional Piano IV	1
MUSI	1139	Voice Class	1
MUSI	2211	String Class	1
MUSI	2213	Brass Class	1
MUSI	2215	Woodwind Class	1
MUSI	2217	Percussion Class	1
MUSI	2219	Guitar Class	1
MUSI	Elective instrumental class		1
MUSI	4440	Senior Recital	1

Music Education Methods (9 hrs.)

MUSI	3328	Elementary Methods, Materials, & Admin	2
MUSI	4429	Instrumental Methods, Materials, & Admin	2
MUSI	4430	Choral Methods, Materials, & Admin	2
MUSI	4431	Methods & Materials in Teach. Music, 7-12	3

• **Professional Education ..... 33 sem. hrs.**

EDUC	2200	Intro. to Education	3
EDUC	2201	Instructional Technology	3
EDUC	2202	Human Growth and Development	3
EDUC	2202L	Laboratory - Clinical I	1
EDUC	3331	Reading in the Content Area	3
EDUC	3351	Human Exceptionalities & Cultural Diversity	3
EDUC	3351L	Laboratory - Clinical II	1
EDUC	3352	Educational Psychology	3
EDUC	3352L	Laboratory - Clinical II	1
EDUC	3395	Secondary Classroom Organization	4
EDUC	4495	Secondary Pre K - Adult Student Teaching/Clinical III	8

SPEECH COMMUNICATION AND THEATRE

The Department of Speech Communication and Theatre has designed a program to provide students with a variety of choices for developing their knowledge and skills through study and performance. Co-curricular activities offered by this department are designed to be learning experiences for students and do not require enrollment in departmental courses.

A number of program choices are available to students in the Department of Speech Communication and Theatre. Students may choose a degree program in:

1.) A Bachelor of Arts major in Theatre, a liberal arts curriculum which can be paired with any academic minor desired by the student.
2.) A Bachelor of Arts major in Speech Communication, a liberal arts program which can be paired with any academic minor desired by the student.
3.) Bachelor of Arts minors in either Speech Communication or Theatre.
4.) Bachelor of Arts in Education, single field, grades 5-12 in Oral Communication (Speech Communication and Theatre).

In order that a student in any of these programs may be recommended for graduation by the Speech Communication and Theatre faculty, s/he must perform in one or more of the department faculty-directed/sponsored public performance areas listed below. A student must reach a satisfactory level of proficiency in at least one of the performance areas. Each student's performance and level of proficiency will be periodically appraised by the faculty.

PERFORMANCE AREAS

Theatre: acting, technical crews, directing, designing, public relations, house management, business management, etc., with Masquers, Town & Gown Players, or studio theatre presentations.

Oral Interpretation: intercollegiate festivals, contests, and other public performances.

Public Speaking: intercollegiate debate, competitive communication and public speaking events, festivals and exhibitions, organizing and evaluating communication performances and other public speaking presentations. The co-curricular activities of this department are open to all students. For detailed infor-

mation, see Forensics and Theatre under Student Services and Organizations in this catalog.

BACHELOR OF ARTS IN SPEECH COMMUNICATION ..... 128 sem. hrs.
Speech Communication Curriculum *(see below)*. 39 sem. hrs.
Liberal Studies Requirements ..... 56 sem. hrs.
Free Electives ..... 33 sem. hrs.

• **Speech Communication Curriculum ..... 39 sem. hrs.**
Required Courses (36 hrs.)

SPCH	1105	Voice & Diction	3
SPCH	1171	Mass Communication	3
SPCH	2215	Nonverbal Communication	3
SPCH	2219	Language in Communication	3
SPCH	2231	Small Group Communication	3
SPCH	2235	Interpersonal Communication	3
SPCH	2241	Argumentation & Debate	3
SPCH	3337	Persuasive Communication	3
SPCH	3345	Oratory	3
SPCH	3369	Communication in Organizations	3
SPCH	4499	Seminar in Communication Issues	3
THEA	2220	Oral Interpretation	3

Speech Communication Electives (3 hrs.)

SPCH	1199	Special Topics in Speech Communication	1-3
SPCH	2249/4449	Intercollegiate Debate Practicum (I-VIII)	1
SPCH	4439	Public Speaking Practicum (I-VIII)	1
SPCH	4491	Directed Study	1-4
THEA	2228/4428	Oral Interpretation Practicum (I-VIII)	1

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

SPCH	1100	Intro. to Speech Comm.	3
SPCH	1171	Mass Communication	3
ENGL	1104	Written English I	3
Liberal Studies / Minor			3
Liberal Studies / Minor			3
Liberal Studies / Minor			3

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
INFO	1100	Comp. Concept & Appl.	3
Liberal Studies / Minor			3
Liberal Studies / Minor			3
Liberal Studies / Minor			3
Liberal Studies / Minor			3

SOPHOMORE FIRST SEMESTER

SPCH	2215	Nonverbal Communication	3
SPCH	2219	Language in Speech Communication	3
SPCH Eective			3
LS/Math			3
Liberal Studies / Minor			3

JUNIOR FIRST SEMESTER

SPCH	2235	Interpersonal Comm.	3
SPCH	3337	Persuasive Communication	3
SPCH Elective			3
Liberal Studies / Minor			3
Liberal Studies / Minor			3

JUNIOR SECOND SEMESTER

SPCH	2231	Small Group Comm.	3
SPCH	3369	Comm. in Organizations	3
SPCH Elective			3
Liberal Studies / Minor			3
Liberal Studies / Minor			3
Liberal Studies / Minor			3

SENIOR FIRST SEMESTER

SPCH	4463	Listening: Theory & Pract	3
-or-			
SPCH	4469	Ethical & Legal Issues	3
SPCH	3345	Oratory	3
Liberal Studies / Minor			3
Liberal Studies / Minor			3

SENIOR SECOND SEMESTER

SPCH	3345	Oratory	3
Liberal Studies / Minor			3
Liberal Studies / Minor			3
Liberal Studies / Minor			3
Liberal Studies / Minor			3

MINOR IN SPEECH COMMUNICATION ..... 24 sem. hrs.
Required Courses (24 hrs.)

SPCH	1105	Voice & Diction	3
SPCH	1171	Mass Communication	3
SPCH	2215	Nonverbal Communication	3
SPCH	2219	Language in Communication	3
SPCH	2231	Small Group Communication	3
SPCH	2235	Interpersonal Communication	3
SPCH	2241	Argumentation & Debate	3
SPCH	3337	Persuasive Communication	3

BACHELOR OF ARTS IN THEATRE ..... 128 sem. hrs.
Theatre Curriculum (see below) ..... 48 sem. hrs.
Liberal Studies Requirements ..... 56 sem. hrs.
Free Electives ..... 24 sem. hrs.

• **Theatre Curriculum ..... 48 sem. hrs.**
Required Courses (39 hrs.)

THEA	1105	Voice & Diction	3
THEA	1110	Introduction to Theatre	3
THEA	1114	Body Training and Stage Movement	3
THEA	1140	Theatrical Production	2
THEA*	1148	Theatre Workshop	1
THEA	1151	Text Analysis	3
THEA	2212	Theatrical Makeup	1
THEA	2230	Acting	3
THEA	2238	Acting Workshop I	1
-or -			
THEA	4432	Acting Workshop II	1
THEA	2244	Introduction to Theatrical Design	3
THEA	2262	Production Practicum I	1
-or-			
THEA	4462	Production Practicum II	1
THEA	3336	Directing	3
THEA	3340/41	Theatre History I, II	6
THEA	3375	Development of Dramatic Art	3
THEA	4438	Senior Comprehensive Project	3

**One hour of THEA 1148 (Theatre Workshop) must be taken concurrently with THEA 1140 (Theatrical Production). THEA 1148 or 3348 taken separately from THEA 1140 will not fulfill the requirement.*

Theatre Electives (9 hrs.)
(At least 6 hours must be upper-division.)

THEA	1199	Special Topics in Theatre	1-3
THEA	2220	Oral Interpretation	3
THEA	2251	Playwriting	3
THEA	3305	Voice for the Stage	3
THEA	3314	Advanced Theatrical Makeup	1
THEA	3326	Performance Studies	3
THEA	3330	Advanced Acting	3
THEA	3344	Advanced Theatrical Design	3
THEA	3346	Creative Puppetry	3
THEA	3350	Children's Drama	3
THEA	3352	Creative Drama	3
THEA	3392	Costume History and Design	3
THEA	4480	Theatre Bus. Management and Promotion	3
THEA	4490	Directed Study in Theatre	1-3

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
SPCH	1100	Intro. to Speech Comm.	3
THEA	1105	Voice & Diction	3
THEA	1110	Intro. to Theatre	3
THEA	2212	Theatrical Make-up	1
Liberal Studies			3

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
INFO	1100	Comp. Concepts & Appls	3
THEA	1114	Body Training & Stage Mvt.	3
THEA	1140	Theatre Production	2
THEA	1148	Theatre Workship	1
THEA	1151	Text Analysis	3

SOPHOMORE FIRST SEMESTER

THEA	2230	Acting	3
LS Math			
Liberal Studies			3
Minor			3
Elective			3

SOPHOMORE SECOND SEMESTER

THEA	2244	Intro. to Theatrical Design	3
THEA Elective			3
Minor			3
Liberal Studies			3
Liberal Studies			3
Liberal Studies			3

JUNIOR FIRST SEMESTER

THEA	3340	Theatre History I	3
THEA	3375	Dev. of Dramatic Art	3
Liberal Studies			3
Liberal Studies			3
Minor			3
Minor			3

JUNIOR SECOND SEMESTER

THEA	3341	Theatre History II	3
THEA	3336	Directing	3
Minor			3
Minor			3
Liberal Studies			3
Liberal Studies			3

SENIOR FIRST SEMESTER

THET Elective			3
THET Elective			3
Minor			3
Liberal Studies			3
Liberal Studies			3

SENIOR SECOND SEMESTER

THET	4438	Sr. Comprehensive Project	3
Liberal Studies			3
Liberal Studies			3
Minor			3
Elective			3

MINOR IN THEATRE ..... 31 sem. hrs.
Required Courses (31 hrs):

THEA	1105	Voice and Diction	3
THEA	1110	Introduction to Theatre	3
THEA	1114	Body Training and Stage Movement	3
THEA*	1140	Theatrical Production	2
THEA*	1148	Theatre Workshop	1
THEA	1151	Text Analysis	3
THEA	2212	Theatrical Makeup	1
THEA	2220	Oral Interpretation	3
THEA	2230	Acting	3
THEA	2244	Introduction to Theatrical Design	3
THEA	3340	Theatre History I	3
-or-			
THEA	3341	Theatre History II	3
THEA	3336	Directing	3

**One hour of THEA 1148 (Theatre Workshop) must be taken concurrently with THEA 1140 (Theatrical Production). THEA 1148 or 3348 taken separately from THEA 1140 will not fulfill the requirement.*

Recommended Related Courses for Theatre Majors and Minors:

ART	1120	Art Appreciation	3
ART	1142	Foundations of Drawing	3
ENGL	3374	Shakespeare	3
ENGL	3390	Modern Drama	3
MUSI	1120	Music Appreciation	3
MUSI	1139	Voice Class I	1
MUSI	1141	Voice I-IV	1-2

BACHELOR OF ARTS IN EDUCATION: TEACHING SPECIALIZATION IN ORAL COMMUNICATION
GRADES 5-ADULT ***(requires second field)*** ..... 128 sem. hrs.
Oral Communication Curriculum *(see below)* ... 44 sem. hrs.
Liberal Studies Requirements ..... 45 sem. hrs.
Professional Education Courses ..... 33 sem. hrs.
Free Electives ..... 6 sem. hrs.

All courses must be completed before the Initial Performance Practicum. SPCH 4431 must be taken in either the junior or senior year by all oral communication majors.

- **Oral Communication Curriculum** ..... 41 sem. hrs.
  Required Courses (41 hrs.)

SPCH	1105	Voice & Diction	3
SPCH	1171	Mass Communication	3
SPCH	2235	Interpersonal Communication	3
SPCH	2241	Argumentation & Debate	3

SPCH	2249/4449	Intercollegiate Debate	1
SPCH	3337	Persuasive Communication	3
SPCH	4431	Methods and Materials in Teaching Speech Communication and Theatre	3
SPCH	4439	Public Speaking Practicum	1
THEA	1140	Theatrical Production	2
THEA*	1148	Theatre Workshop	1
THEA	2212	Theatrical Makeup	1
THEA	2220	Oral Interpretation	3
THEA	2228/4428	Oral Interpretation Practicum	1
THEA	2230	Acting	3
THEA	2244	Introduction to Theatrical Design	3
THEA	3336	Directing	3
THEA	3350	Children's Drama	3
THEA	3354	Theatre Education Practicum	1

**The one required hour in THEA 1148 (Theatre Workshop) must be taken concurrently with THEA 1140 (Theatrical Production). Previously acquired credit in THEA 1148 or THEA 3348 will not fulfill this requirement.*

• Professional Education ..... 33 sem. hrs.

EDUC	2200	Intro. to Education	3
EDUC	2201	Instructional Technology	3
EDUC	2202	Human Growth and Development	3
EDUC	2202L	Laboratory - Clinical I	1
EDUC	3331	Reading in the Content Areas	3
EDUC	3351	Human Exceptionalities & Cultural Diversity	3
EDUC	3351L	Laboratory - Clinical II	1
EDUC	3352	Educational Psychology	3
EDUC	3352L	Laboratory - Clinical II	1
EDUC	3395	Second. Classroom Org. & Practices	4
EDUC	4495	Second. Pre K-Adult Stud. Teach./Clinical III.	8

• Model Schedule ..... sem. hrs.

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English I	3
SPCH	1100	Intro. to Speech Comm.	3
THEA	1140	Theatre Production	2
THEA	1148	Theatre Workshop	1
THEA	1105	Voice & Diction	3
THEA	2212	Theatrical Makeup *(even years)*	1
Liberal Studies Math			3
Society/Human Interaction			3

FRESHMAN SECOND SEMESTER

ENGL	1108	Written English II	3
INFO	1100	Computer Concepts & Applications	3
EDUC	2200	Introduction to Education	3
THEA	2220	Oral Interpretation (odd years)	3
- or -			
Liberal Studies - Cuture/Civilization			3
Liberal Studies - Artistic/Creative/Interdisciplinary election			3
Liberal Studies - Society/Human Interaction			3

SOPHOMORE FIRST SEMESTER

SPCH	1171	Mass Communication	3
SPCH	2241	Debate	3
THEA	2228	Oral Interpretation	1
THEA	2230	Acting	3
EDUC	2201	Instructional Technology	3
Liberal Studies - Scientific Discovery			4
THEA	2212	Theatrical Makeup *(even years)*	1

SOPHOMORE SECOND SEMESTER

SPCH	2249	Debate Practicum	1
THEA	2244	Intro. to Theatre Design *(odd years)*	3
- or -			
THEA	3350	Children's Drama	3
EDUC	2202	Human Growth and Development	3
EDUC	2220L	Laboratory	0
2nd Field Requirement			3
Liberal Studies - Scientific Discovery			4
Liberal Studies - Culture/Civilization			3
- or -			
THEA	2220	Oral Interp. *(even years)*	3

JUNIOR FIRST SEMESTER

Culture/Civilization			3
2nd Field Requirement			3
SPCH	2235	Interpersonal Comm.	3
SPCH	3337	Persuasion	3
SPCH	4439	Public Speaking Practicum	1
EDUC	3331	Reading Content Areas	3
2nd Field Requirement			3

JUNIOR SECOND SEMESTER

Culture/Civilization			3
2nd Field Requirement			3
2nd Field Requirement			3
THEA	2244	Intro. to Theatre Design	3
- or -			
THEA	3350	Children's Drama	3
2nd Field Requirement			3
THEA	3336	Directing	3

SENIOR FIRST SEMESTER

SPCH	4431	Methods	3
THEA	3354	Theatre Ed. Practicum	1
EDUC	3351	Human Exceptionalities	3
EDUC	3351L	Lab	1
EDUC	3352	Educational Psych.	3
EDUC	3352L	Lab	1
2nd Field Requirement			3
2nd Field Requirement			3

SENIOR SECOND SEMESTER

EDUC	3395	Secondary Classroom Org.	4
EDUC	4495	Student Teaching	8

School of Nursing and Allied Health Administration

■ Dr. Mary Sharon Boni, Dean
School of Nursing and Allied Health Administration
244 Education Building / (304) 367-4133
mboni@fairmontstate.edu

FACULTY

BATES, JOYCE A (2001)
Clinical Instructor of Nursing

BOND, SHARON L. (1994)
Associate Professor of Nursing

CONDRON, ELLEN (1990)
Associate Professor of Nursing

GALLO, VERONICA (2004)
Clinical Instructor of Nursing

HITE, KEVIN (2005)
Assistant Professor of Nursing

HOAG, DEBRA (2002)
Assistant Professor of Nursing

KIRBY, GALE T. (1989)
Assistant Professor of Nursing

KIRCHOFF, DENICE (1998)
Associate Professor of Nursing

MEIGHEN, MARY, Dr. (1983)
Professor of Nursing

MOORE, CONNIE S. (1988)
Senior Associate Professor of Nursing

ROGERS, TANYA L. (2001)
Assistant Professor of Nursing

TURBANIC, JUDITH A. (1995)
Assistant Professor of Nursing

TURCHIN, LINDA (2003)
Assistant Professor of Nursing

YOUNG, FRANCES T. (1997)
Associate Professor of Nursing

ALLIED HEALTH ADMINISTRATION
(Bachelor of Science)

This is a comprehensive program which is designed to provide health professionals with the education to become administrators in health care agencies. The curriculum is directed toward developing the management, problem-solving, finance and interpersonal skills that are necessary for careers in a variety of health care organizations. An additional intent of the program is to provide career advancement opportunities for those who are already employed in health care organizations.

To be eligible for admission to the Bachelor of Science program in Allied Health Administration, a student must have an associate degree in a health-care field from an accredited college. Requirements include Liberal Studies courses, Degree Requirements, and a core curriculum which encompasses accounting, management, problem solving and allied health courses.

Liberal Studies and required support courses should be completed prior to enrolling in the Allied Health courses.

Students must earn a grade of "C" or higher in all required courses.

BACHELOR OF SCIENCE IN ALLIED HEALTH ADMINISTRATION ..... 128 sem. hrs.
Liberal Studies Requirements ..... 44 sem. hrs.
Allied Health/Support Curriculum *(see below)* .. 31 sem. hrs.
Associate Degree Major Credits ..... 35 sem. hrs.
Electives ..... 18 sem. hrs.

- **Allied Health Administration Curriculum ..... 31 sem. hrs.**
  Required Support Courses (18 hrs.)

ACCT	2201	Principles of Accounting I	3
INFO	1100	Computer Concepts and Applications	3
MGMT	2209	Principles of Management	3
MGMT	3308	Human Resource Management	3
MGMT	3390	Human Behavior in Organization	3
BUSN	3310	Statistics	3
-or-			
PSYC	2240	Statistics	4
-or-			
MATH	1113	Applied Statistics	4

Required Allied Health Courses (13 hrs.)

ALLH	3301	Health Care Organization	3
ALLH	3302	Management Problems of the Health Care Delivery System	3
ALLH	3372	Legal and Medical Ethics	3
ALLH	4401	Practicum and Seminar	4

NURSING
(Bachelor of Science Degree)

The Bachelor of Science in Nursing Program is designed for Registered Nurses who desire a baccalaureate degree in nursing. It provides career mobility for the associate degree and diploma-graduate nurse. The program is designed to prepare nurse generalists to provide and coordinate care in situations of health promotion, maintenance, and restoration. The program also aims to provide a base for graduate study and to prepare graduates to assume accountability for nursing practice in the roles of clinical generalist, client advocate, leader, manager, research consumer and lifelong learner.

The curriculum is individually designed on the basis of the student's academic background. A minimum of 128 approved credit hours is required. This includes 32 upper division nursing credits. The program can be completed in two full-time academic years if the lower division requirements have been completed in advance. Students may enroll on a full-time or

part-time basis. Nursing courses will be offered in the evening when possible. A grade of "C" or above is required in all nursing and support courses.

The Bachelor of Science in Nursing Program is accredited by the Commission on Collegiate Nursing Education. Fur further information on accreditation, contact: Commission on Collegiate Nursing Education, One Dupont Circle, NW, Suite 530, Washington, DC 20036-1120, (202) 887-6791.

All applicants seeking admission to the Bachelor of Science in Nursing Program are required to:

1.) Meet the general admission requirements of Fairmont State University.
2.) Hold an unencumbered license to practice as a Registered Nurse in West Virginia.
3.) Submit an application for admission, designating the major as Baccalaureate in Nursing, to the Office of Admissions in order to be considered for admission. The following information must also be submitted:
   a. Official high school transcript or GED scores.
   b. Official college or diploma program transcripts.
   c. Short résumé, including education and work experience since graduation.
   d. Evidence of current CPR certification (must be provided prior to beginning clinical courses).
   e. Completed health form and/or meet clinical agency requirements.
4.) Complete successfully the lower-division requirements as indicated, prior to admission to clinical nursing courses.
5.) Have any eligible transfer courses evaluated by the Registrar's Office.
6.) Graduates of a diploma nursing program will receive credit for lower division nursing courses by successfully completing 14 credits in the nursing major with a grade of "C" or better.

Registered Nurses who have not completed the required lower division courses are encouraged to contact the School of Nursing and Allied Health Administration for advising purposes.

The following courses are required for completion of this program. Credit for some courses may be earned by examination. All required support courses must be completed prior to or concurrently with Nursing 4440. Admission to the program is required for enrollment in clinical nursing courses.

Courses marked with an asterisk must be completed prior to admission to the BSN nursing courses. The Bachelor's Degree in Nursing offers an option of School Nurse Certification. Education 2200 and the School Nurse Track in Nursing 4440 are required for this program.

Liberal Studies and Support Course Requirements

Communication Skills

*ENGL	1104	Written English I	3
*ENGL	1108	Written English II	3
SPCH	1100	Intro. to Speech Com	3
INFO	1100	Comp. Sci. (or demonstrated competency)	3

Cultural/Civilization Exploration (9 hrs.)
See Liberal Studies Requirements

Society and Human Interactions

*POLI	1103	American Government	3
*PSYC	1101	Introduction to Psychology	3
*SOCY	1110	General Sociology	3

Scientific Discovery

*BIOL	1170	Anatomy and Physiology	4
*BIOL	2205	Technical Microbiology	4

Mathematics

MATH	1107	or higher Math	3

Creative Expression and Interdisciplinary Studies

Appreciation Course			
Art, Music, Theatre, or INTR 1120			3
INTR	1100	Race, Class and Gender	3

Support Courses

ECON	2200	Economics	3
PSYC	2240	Statistics	4
-or-			
BUSN	3310	Statistics	3
CHEM	1101	General Chemistry	4
-or-			
SCIE	1110	Chemistry of Life	4
MGMT	2209	Principles of Management	
-or-			
MGMT	3308	Human Resources	3
**EDUC	2200	Introduction to Education	3

**Courses marked with an asterisk must be completed prior to enrolling in NURS 3350. CHEM 1101 or SCIE 1110 required prior to enrollment in NURS 3360.*

*** School Nurse candidates only.*

• Required Nursing Courses ..... 32 sem. hrs.

NURS	3320	Health Assessment	4
NURS	3330	Health Deviations	3
NURS	3350	Professional Nursing Concepts	3
NURS	3360	Complex Nursing Situations	4
NURS	4400	Research in Nursing Practice	3
NURS	4410	Community Health Nursing	6
NURS	4430	Leadership and Manag. in Nursing Practice	3
NURS	4440	Nursing Practicum	6

• Associate Degree Nursing Credits ..... 35 sem. hrs.
• Total ..... 128 sem. hrs.

• Returning BSN seeking School Nurse Certificate

NURS	4441	School Nurse Practicum	4
EDUC	2200	Introduction to Education	3

NURSING

(Associate of Science Degree)

The mission of the Associate of Science in Nursing program is to provide quality nursing education to people in north central West Virginia and beyond. The program is designed to prepare graduates for a challenging and satisfying career as a nurse. The curriculum includes a balance of nursing and non-nursing courses. Students have the opportunity to apply nursing theory and skills in the campus laboratory as well as in clinical settings which may include hospitals in Morgantown, Clarksburg, and Fairmont, as well as nursing homes, a rehabilitation center, schools, clinics, and physician's offices. The psychiatric nursing experience takes place in Weston and Morgantown during the summer. Students are expected to provide their own transpor-

tation to all clinical experiences.

Fairmont State's associate degree nursing program is designed to produce a graduate who is able to:

1.) Initiate client care using critical thinking skills to make reasoned decisions.
2.) Practice social and professional accountability and responsibility.
3.) Synthesize knowledge from nursing and the physical, biological, behavioral and social sciences to implement the nursing process.
4.) Establish effective therapeutic communication with clients.
5.) Demonstrate competency in therapeutic nursing interventions.
6.) Coordinate client care functioning in the multiple roles of care provider, teacher, communicator, manager, and member of the profession.

An impartial scoring system is employed to rank applicants to the nursing program. The evaluation process considers Test of Essential Academic Skills scores; ACT or SAT scores; or Compass scores in writing or math; high school or college grade point average or GED scores; grades in chemistry, biology, and algebra; and college courses completed that apply to the nursing degree (if applicable). Applicants who are not admitted must reapply if they wish to be considered for the next academic year.

To remain in the nursing program, a student must receive a grade of C or above in every nursing course and in every required support course. Failure to meet either of these requirements will result in dismissal from the program. Readmission is on the basis of reapplication and reacceptance. To graduate from the nursing program, a student must have a grade of C or above in every nursing course and a cumulative 2.0 grade point average.

Graduates of the program are eligible to take the National Council Licensing Examination for licensure as a Registered Nurse. For licensure in West Virginia, candidates must meet the following legal requirements delineated in the West Virginia Code, Chapter 30, Article 7, Section 6 and 11. They require that the graduate:

1.) Be of good moral character.
2.) Has completed an approved four-year high school course of study or the equivalent thereof.
3.) Has completed an accredited program of registered professional nursing education and holds a diploma of a school accredited by the Board.
4.) Has not been convicted of a felony or violated any standards listed in 30-7-11, 19-3-2, or 19-3-14 of the WV Code and Legislative Rules for Registered Professional Nurses.

The nursing program is accredited by the West Virginia Board of Examiners for Registered Professional Nurses and the National League for Nursing Accreditation Commission, Accrediting Commission, 61 Broadway-33rd Floor, New York, NY 10006. Associate Degree Nurses are qualified to work in hospitals, nursing homes, physicians' offices and clinics. Graduates may also continue in higher education toward Bachelor's and Master's degrees in nursing and related fields.

ASSOCIATE OF SCIENCE IN NURSING ..... 70 sem. hrs.

MODEL SCHEDULE

FRESHMAN FIRST SEMESTER

ENGL	1104	Written English	3
NURS	1101	Fundamentals of Nursing	6
FOSM	2220	Diet Therapy	3
BIOL	1170	Anatomy & Physiology	4
			16

FRESHMAN SECOND SEMESTER

ALLH	1106	Introduction to Pharmacology	3
BIOL	2205	Microbiology	4
PSYC	1101	Introduction to Psychology	3
NURS	1104	Adult Health I	4
NURS	1105	Adult Health II	4
			18

SUMMER

NURS	2201	Psychiatric Nursing	6

SOPHOMORE FIRST SEMESTER

ENGL	1108	Written English	3
POLI	1103	American Government	3
NURS	2204	Trends in Nursing	2
NURS	2222	Adult Health III	4
NURS	2223	Adult Health IV	4
			16

SOPHOMORE SECOND SEMESTER

NURS	2205	Maternity Nursing	4
NURS	2206	Nursing of Children	4
SOC	1110	Introduction to Sociology	3
INTR	1100	Race, Class, & Gender	3
NURS	2207	NCLEX Review	1
			15

ACCELERATED LPN TO ADN TRACT

Once admitted to the Associate Degree Nursing program, Licensed Practical Nurses are eligible for the articulation process. This accelerated process grants 14 nursing credit hours upon successful completion of Mastery of Adult Health 1106 and 1107 with a 20 contact hour clinical component in each course. The nursing courses can be completed in 12 months with a one hour on-line transition course, NURS 1102, taken the semester prior to beginning the nursing courses. Liberal Studies and support course requirements will need to be taken prior to and/or concurrently with the nursing courses.

Licensed practical nurses who are interested in the Associate Degree Nursing program should review the application process on the School of Nursing & Allied Health Administration Academic home pages.

TRANSPORTATION

As most of these programs require considerable student attendance at off-campus locations, it will be the student's responsibility to provide transportation to all clinical affiliates. The utilization of car pools, when appropriate, is encouraged to help meet the expense of those providing transportation.

LIABILITY INSURANCE

Students in Nursing and Allied Health programs are covered by a group liability insurance handled by the State of West Virginia. The students are not obligated to maintain any other liability insurance.

Interdisciplinary Programs

FORENSICS

The Forensics degree consists of two majors. The Forensic Science major includes biology, chemistry, criminal justice, mathematics, physics and interdisciplinary courses, and prepares students for graduate school and/or employment in scientific laboratories. In addition, an emphasis in biotechnology is available. The Forensic Psychology major, drawing upon criminal justice and psychology, prepares students both for graduate programs and for careers in psychology, social work, law enforcement and corrections. Candidates for both majors must complete the Liberal Studies requirements as described in the Degree Requirements chapter of this catalog. A minor area of study is not required with the Forensic Psychology major, due to the comprehensive nature of the program's specialized course work. Students completing the requirements for the Forensic Science major will automatically earn a minor in chemistry.

For forensic science majors, the required science courses satisfy the Liberal Studies scientific discovery requirement and the required math course satisfies the Liberal Studies math requirement. Electives normally will be upper-level courses and must be chosen in consultation with the forensic science advisor. Students interested in graduate school will need to complete additional upper-level science courses. ACT prerequisites for required science and math courses are listed in the catalog under the course description for each course. Students entering with an ACT science reasoning score of 21 or better, ACT Math score of 24 or higher, two units of high school algebra, one unit of high school geometry and one unit of high school trigonometry will be prepared for all courses. Students not meeting this list of prerequisites will need to take specific additional courses and should consult with the forensic science advisor immediately.

Students pursuing the Forensic Science major will be assigned an academic advisor from the forensic science coordinating committee. Forensic Psychology majors will be assigned advisors from the Department of Social Sciences.

BACHELOR OF SCIENCE IN
FORENSIC SCIENCE ..... 128 sem. hrs.
Forensic Science Curriculum *(see below)* ..... **83 sem. hrs.***
Liberal Studies Requirements ..... **33 sem. hrs.**
(see "Degree Requirements" for LSRs not completed through the major)
Advisor Approved Electives ..... **12 sem. hrs.***

**Choosing higher-credit hour alternatives in the major curriculum reduces the minimum number of free elective credit hours required to reach 128 semester hours.*

- **Forensic Science Curriculum ..... 83 sem. hrs.**
  Required Courses (83 hrs.)

BIOL	1105	Biological Principles I	4
BIOL	1106	Biological Principles II	4
BIOL	1170	Anatomy and Physiology	4
BIOL	3380	Genetics	4
BIOL	3390	Molecular Biotechnology	4
CHEM	1105	Chemical Principles I	5
CHEM	1106	Chemical Principles II	4
CHEM	1113	Practical Sci. Statistics with a Spreadsheet	1
CHEM	2201	Organic Chemistry I	4
CHEM	2202	Organic Chemistry II	4
CHEM	2205	Analytical Chemistry	4
CHEM	2215	Intermediate Instrumental Analysis	4
CRJU	1100	Introduction to Criminal Justice	3
CRJU	2236	Criminal Investigation	3
CRJU	2246	Criminal Evidence	3
CRJU	3300	Criminalistics	3-4
CRJU	4410	Research in Criminal Justice	3
CRJU	4411	Field Practicum	3
INTR	4401	Capstone Seminar in Forensic Science	3
MATH	1185	Applied Calculus I	4
-or-			
MATH	1190	Calculus I	4
MATH	1113	Applied Statistics	4
PHYS	1101/02	Introduction to Physics I, II	8
-or -			
PHYS	1105/06	Principles of Physics I, II	10

Additional requirements for Biotechnology Emphasis (9 hrs.)

BIOL	3360	Biochemistry	4
CHEM	3301	Physical Chemistry	4
CHEM	4405	Advanced Integrated Lab	1

BACHELOR OF SCIENCE IN
FORENSIC PSYCHOLOGY ..... 128 sem. hrs.
Forensic Psychology Curriculum *(see below)* ..... **76 sem. hrs.**
Liberal Studies Requirements ..... **44 sem. hrs.**
Electives ..... **8 sem. hrs.**

- **Forensic Psychology Curriculum ..... 76 sem. hrs.**
  Required Courses (76 hrs.)

CRJU	1100	Introduction to Criminal Justice	3
CRJU	1101	Police Operations	3
CRJU	2206	Introduction to Corrections	3
CRJU	2236	Criminal Investigation	3
CRJU	2246	Criminal Evidence and Procedures	3
CRJU	3320	Introduction to Criminology	3
CRJU	3350	Group Techniques	3
CRJU	3360	Community Based Corrections	3
PSYC	1101	Introduction to Psychology	3
PSYC	2220	History and Systems of Psychology	3
PSYC	2230	Social Psychology	3
PSYC	2240	Statistics	4
PSYC	3300	Abnormal Psychology	3
PSYC	3310	Experimental Psychology	3
PSYC	3330	Developmental Psychology	3
PSYC	3350	Biopsychology	3
PSYC	3370	Theories of Learning	3
PSYC	3390	Foundations of Psychology	3
PSYC	4400	Psychological Assessment	3
PSYC	4410	Theories of Personality	3
PSYC	4460	Seminar I: Intro. to Forensics	3
PSYC	4460	Seminar II: Interventions	3
PSYC	4491	Psychopathology-Childhood & Adol.	3
PSYC	4495	Delinquency	3
PSYC	4497	Practicum I	3

COMPUTER FORENSICS

(minor/certificate only)

The Minor or Certificate of Completion in Computer Forensics provides basic knowledge for those students and practitioners who have an interest in criminal justice and computer crime investigation.

MINOR IN COMPUTER FORENSICS ..... 18 sem. hrs.
Required Courses (9 hrs.)

CRJU	2203	Computer Crime: Legal Issues and Investigative Procedures	3
INFO	2205	Information Technology-Hardware and Operating Systems	3
INFO	2250	Networks and Telecommunications	3

Electives (9 hrs)
(Students must select at least one course from each field)

CRJU	2246	Criminal Evidence	3
CRJU	3301	Internet Vulnerabilities and Criminal Activity	3
CRJU	3340	Laws of Arrest, Search and Seizure	3
CRJU	4410	Research in Criminal Justice	3
CRJU	4411	Field Practicum	3
INFO	2200	Fundamentals of Information Systems	3
INFO	3310	Systems Analysis and Design	3
INFO	3339	Programming, Data & File Structures	4
INFO	3340	Advanced Application Development	3
INFO	4420	Database Design and Implementation	3

CERTIFICATE OF COMPLETION IN COMPUTER FORENSICS ..... 12 sem. hrs.
Required Courses (12 hrs.)

CRJU	2203	Computer Crime: Legal Issues and Investigative Procedures	3
CRJU	3301	Internet Vulnerabilities and Criminal Activity	3
INFO	2205	Information Technology-Hardware and Operating Systems	3
INFO	2250	Networks and Telecommunications	3

INTELLIGENCE RESEARCH & ANALYSIS
(minor)

The Minor in Intelligence Research & Analysis will provide a foundation of courses to students and practitioners pursuing careers as research and/or intelligence analysts. The coursework is intended to provide the student with a basis of knowledge for the preparation of assessments based on the collection, correlation and analysis of intelligence data. The goal of the program is to produce a student qualified for an entry-level position with government agencies or private businesses.

Students seeking admission to the minor program must apply to the program advisor, successfully complete an interview and submit a writing sample. Students must be aware that future employment often requires intensive background investigations, and any conduct deemed significantly unethical, illegal or unprofessional may result in the student failing to achieve employment in the field regardless of his/her academic record.

MINOR IN INTELLIGENCE RESEARCH & ANALYSIS ..... 21 sem. hrs.
Required Courses (21 hrs.)

CRJU	2246	Criminal Evidence	3
CRJU	4410	Research in Criminal Justice	3
HIST	3310	Diplomatic and Military History	3
POLI	2204	Introduction to Public Administration	3
POLI	4405	Terrorism	3
SSCI	1101	Introduction to Intelligence Research	3
SSCI	2200	Field Experience	3

It is strongly recommended that students acquire a reading competency in a foreign language and successfully complete a statistics course. Prerequisites for the whole program: CRJU 1100, POLI 1103, INFO 1100, HIST 1107 and 1108, ECON 2200. These prerequisites, except CRJU 1100, are currently Liberal Studies or Liberal Studies elective courses.

INTERDISCIPLINARY STUDIES DEGREE

This program will lead to the degree Bachelor of Arts or Bachelor of Science in Interdisciplinary Studies. It is designed to meet the needs of the student whose career and educational goals may not be satisfied by the major fields available at Fairmont State University. This degree allows greater flexibility in programming and enables students to gain optimum benefits from the strengths of the institution as they apply to the chosen fields of study.

The Academic Affairs Control Committee, which is chaired by the Provost and Vice President for Academic Affairs, is responsible for the overall coordination and control of the program. School Chairs and a Coordinating Committee, composed of faculty who hold the rank of assistant professor or higher and who have been approved by the Deans, assist in implementing the program.

Application to the program must be made between the end of the first semester and the beginning of the fifth semester of academic work. Students must have completed at least one semester of academic work as full-time students with an average of 2.0 or better.

PROGRAM REQUIREMENTS

- The student's program must contain a strong concentration of at least 48 semester hours, drawn from at least two disciplines of existing courses which form a logical selection, having a clear purpose and aimed at a specific learning outcome that is not already represented among the major fields available at Fairmont State.
- At least 24 hours of those courses must be taken after admission to the program.
- The courses must be drawn from major four-year programs, or courses in an associate degree program which are part of the requirements for a bachelor's degree.
- Arranged classes are to be avoided.
- At least one-half of the hours in the concentrated area must be at the upper level.
- Up to 12 hours may be earned by appropriate directed research, exhibition, performance, internship, or combination of these. This credit is subject to the existing regulations for similar experience; no experiential credit will be accepted.
- All requirements of the B.A. or B.S. degrees will apply, including successful completion of the Liberal Studies Requirements, overall grade point average of 2.0, residency requirements, 128 hours required for graduation and other stipulations to be found in the University catalog. Liberal Studies requirements will be determined by the first concentration area.
- Elective courses will be used to complete hours required for graduation.

- Students who anticipate graduate school attendance should check appropriate catalogs to ensure that they will qualify for admission.
- Once a proposal has been approved, it may be amended only with permission.

WOMEN'S STUDIES

(minor only)

The Women's Studies minor provides students with an avenue to explore contemporary and historical women's issues as they relate to traditional academic disciplines and human life. Awareness of women's issues has become an asset in any profession. Students wishing to elect this minor will need to work closely with their advisor. Most importantly, all component course selections must be made from the approved list of courses published each semester by the Women's Studies Coordinating Committee.

MINOR IN WOMEN'S STUDIES ..... 18 sem. hrs.

Required Courses (6 hrs.)

INTR	2201	Introduction to Women's Studies	3
INTR	4402	Capstone Seminar in Women's Studies	3

Electives (12 hrs.)

(Select two courses from each of the following groups)

Group A

BUSN	3325	Women and Work	3
CRJU	3305	Changing Roles of Women in Criminal Justice	3
ENGL	3388	Women's Literature	3
HIST	3333	Social History of American Women	3

Group B

APPD	1103	Clothing and Culture	3
APPD	1116	History of Contemporary Fashion	3
ENGL	3363	American Novel	3
ENGL	3379	Victorian Literature	3
ENGL	3380	20th Century British Literature	3
ENGL	3381	British Novel	3
ENGL	3389	Minority Literature	3
ENGL	3391	Short Story	3
ENGL	3392	Contemporary Poetry	3
ENGL	3393	Southern Literature	3
FACS	3310	Family Life Education	3
FOSM	1110	Nutrition	3
INTR	1100	Race, Class and Gender	3
INTR	2280	Empowering Leadership	3
INTR	3380	Great Leaders	3
NURS	2205	Maternity Nursing	3
SOCY	3310	Sociology of the Family	3

Courses of Instruction

NOTES:

PR = Prerequisite. These courses must be passed before enrollment in the course in question.

CR = Co-requisite. Must be taken concurrently with the course in question.

S-C&TC = Shared course, coordinated by Community & Technical College.

S-FSU = Shared course, coordinated by University.

ACADEMIC DEVELOPMENT CENTER

ENGL 0092 S-C&TC Basic Reading and Study Skills

This course not only emphasizes basic reading techniques (such as vocabulary and comprehension enhancement) but also focuses on the specific academic reading and study skills necessary to succeed in college-level courses. This course offers individualized and group instruction for college-level reading tasks, including word recognition, vocabulary and comprehension skills, and in study skills, including time management, textbook comprehension, note taking, and test preparation. Incoming basic literacy is assumed. Credit hours will not apply toward hours required for graduation. Students who wish to improve their academic reading and study habits are encouraged to enroll.

ENGL 0097 S-C&TC Composition Skills

English 0097 is required of all ALL students scoring below an 18 on the English portion of the ACT, below 450 on the SAT (Recentered) verbal section, or below 71 on the writing portion of the COMPASS test. This computer-enhanced course focuses on improving skills in written composition to help students develop the skills necessary to earn a "C" or better in English 1104. The course emphasizes the generation of a series of multi-paragraph essays. According to state college system mandates, to earn a Credit in the class and move on to college-level writing, students must be able to write an essay that demonstrates the following characteristics:

- a central idea or thesis;
- an introduction/body/conclusion;
- paragraphs with topic sentences and supporting details;
- complete, grammatical sentences with some variety in syntax;
- appropriate word choice;
- clear flow of ideas from one part to another;
- proficient use of standard English punctuation and spelling.

This course offers institutional credit only. Credit hours will not apply toward hours required for graduation. This course must be completed in the first 32 hours of work in a student's program of study.

MATH 0093 S-C&TC General Math. 3 hrs.

The following topics will receive attention in this course: basic operations (adding, subtracting, multiplying, dividing) on whole numbers, fractions, decimals, and percent; operations on integers; interpreting basic statistical information; implementing critical thinking skills to solve problems; and applying mathematics to solving word problems and to daily living. Students with a COMPASS score below 19 will need to enroll in Math 0093 before enrolling in Math 0094. This course offers institutional credit only. Credit hours will not apply toward hours required for graduation. This course must be completed in the first 32 hours of work in a student's program of study.

MATH 0094 S-C&TC Pre-Algebra. 3 hrs.

The following topics will receive attention in this course: operations on positive and negative real numbers; order of operations; solving elementary equations and their applications; operations on polynomial and exponential expressions. Prerequisite: Math 0093 or a COMPASS score of 19. This course offers institutional credit only. Credit hours will not apply toward hours required for graduation. This course must be completed in the first 32 hours of work in a student's program of study.

MATH 0095 S-C&TC Introductory Algebra. 3 hrs.

The following topics will receive attention in this course: order of operations; operations on exponential, polynomial, and rational expressions; solving linear, simultaneous, and quadratic equations in the set of real numbers and their applications; graphing equations and forms of equations of a line; operations on roots and radicals. Prerequisite: Math 0094 or Compass score of 26 or more. Students enrolling in this course should be able to manipulate fractions and positive and negative integers and to solve elementary equations. This course offers institutional credit only. Credit hours will not apply toward hours required for graduation. This course must be completed in the first 32 hours of work in a student's program of study.

ACCS 1110 Online Tutorial Practicum. 1 hr.

This course is designed to equip tutors with the necessary skills to effectively communicate with students in an individual and group setting. The course entails an orientation to tutorial procedures and assignments that emphasize specific skills such as tutoring special populations, tutoring study skills, and recognizing diverse response styles. The course is a requirement for all new tutors; instructor permission is required for registration.

ACCOUNTING

ACCT 1100 S-C&TC Fundamentals of Accounting. 3 hrs.

This course provides a brief but comprehensive introduction to accounting. It gives students a basic understanding of accounting principles and procedures used for recording, classifying, and summarizing financial data. Students also learn accounting terminology and are introduced to the financial forms, records, and statements used in the business world.

ACCT 2201. S-FSU Principles of Accounting I. 3 hrs.

This course covers fundamental accounting theory and procedures: organization of accounts, the accounting cycle, working papers and the preparation of financial and operating statements for proprietorships.

ACCT 2202. S-FSU Principles of Accounting II. 3 hrs.

The second semester of this course is a further study of the accounting process as applied to various business organizations. The two semesters of this course are designed to give students an adequate understanding of the recording, classifying and summarizing of business transactions in order to proceed with the interpretation and analysis of accounting data. This is a basic course for accounting majors, majors in other areas of business administration, and those whose major interest is in economics, political science, law or other professional areas. PR: ACCT 2201.

ACCT 2215. S-C&TC Managerial Accounting. 3 hrs.

The managerial accounting course is designed to acquaint students with the use of accounting information for the purpose of managerial control and decision-making. Concepts of cost, profit, and budgeting will be discussed and aspects of performance measurement and evaluation will also be covered. PR: ACCT 2202.

ACCT 2216. S-C&TC Income Tax Procedures. 3 hrs.

An introduction to the concepts of income taxation and the applications of these concepts through problem solving with the use of tax forms. May be used as an elective by Accounting Majors. PR: ACCT 2202.

ACCT 2217. S-C&TC Concepts of Computerized Accounting. 3 hrs.

Three hours lecture/lab time per week. This course is designed to reinforce topics presented in Principles of Accounting and to introduce the student to computerized accounting methods. Through hands-on computer work, the student will become familiar with accounting software (QuickBooks) and have the opportunity to work in greater depth with Principles of Accounting topics. Completion of this course will provide students with the skills needed to attain certification in QuickBooks. PR: ACCT 2202.

ACCT 2242 S-C&TC Professional Internship and Portfolio Development. 3 hrs.

The purpose of this course is to allow students to bring business topics into focus by using all their collected business knowledge. This will be accomplished through completion of a portfolio that will demonstrate to prospective employers the student's career preparation. The student will also be required to complete a professional internship in the work place. The importance of career and goal planning will be emphasized. A total of 140 hours of supervised work will be required. PR: Instructor's Consent.

ACCT 2290 S-C&TC Specialized Accounting Topics Course Description. 3 hrs.

A survey of the theoretical and practical aspects of financial accounting. Valuation, analysis, and formal presentation of accounting data of the profit-directed entity will be the focus. PR: ACCT 2202.

ACCT 3301. Intermediate Accounting I. 3 hrs.

Primarily the study of general financial accounting theory as it relates to balance sheet items. Included is a brief review of the accounting cycle and income recognition theory. Current tax regulations are considered where applicable. PR: ACCT 2202.

ACCT 3302. Intermediate Accounting II. 3 hrs.

A continuation of ACCT 3301, to include the study of corporate ownership equity and the analysis and interpretation of accounting data. PR: ACCT 3301.

ACCT 3303. Accounting Internship. 3 hrs.

The internship course is designed as a learning experience which requires the integration of accounting theory with actual job experience in an accounting, industrial, or governmental organization. To be eligible for this experience, the student must be enrolled in the 4-year accounting program. The employer is responsible for evaluating and reporting the development of the student. This is a Credit/No Credit course. PR: ACCT 3302, instructor's consent.

ACCT 3325. Intermediate Accounting III. 3 hrs.

A continuation of the study of financial accounting theory and practices. Topics include accounting for income taxes, pensions and other post-retirement benefits, leases, cash flows, and disclosure standards. PR: ACCT 3302.

ACCT 3330. Advanced Accounting I. 3 hrs.

Includes accounting for special situations: partnerships, installment and consignment sales, home office-branch relationships, consolidations, and fund accounting. Attention is focused on the current AICPA position relative to these special accounting situations. PR: ACCT 3302.

ACCT 3331. Advanced Accounting II. 3 hrs.

A continuation of ACCT 3330; exploration of advanced accounting topics. PR: ACCT 3330.

ACCT 3350. Accounting Information Systems. 3 hrs.

This course is designed to introduce students to accounting information systems. It focuses on understanding the different types of accounting systems, their internal controls (including security issues), development, and information systems auditing concepts. PR: ACCT 2202.

ACCT 3399. Special Topics in Accounting. 1-6 hrs.

Advanced studies in special selected topics, to be determined by the instructor and approved by the School Dean. Credits earned will be applicable as free electives in degree programs.

ACCT 4404. Cost Accounting. 3 hrs.

The relationship of cost accounting to the performance of management's pursuit of company objectives is studied with 4 basic points of view in mind: cost principle, determination, control and analysis. PR: ACCT 2202.

ACCT 4405. Auditing. 3 hrs.

A study of the philosophy, environment, and procedures of auditing, and the legal, social and professional responsibilities of the auditor. PR: ACCT 3302.

ACCT 4406. Federal Income Tax Accounting: Individual. 3 hrs.

This course covers preparation of income tax returns from the accounts of an individual; exclusions and inclusions for gross income, capital gains and losses, business expenses, and other deductions.

ACCT 4407. Federal Income Tax Accounting: Partnership and Corporation. 3 hrs.

Continuation of 4406, including preparation of income tax returns from accounts of partnerships, estates and trusts and corporations. While previous accounting knowledge or experience will be helpful, no prior accounting training is required. PR: ACCT 4406.

ACCT 4410. Case Studies in Accounting. 3 hrs.

Writing Intensive

This course is designed to provide stimulus for critical analysis of accounting, finance, and ethics problems. Emphasis is placed on research, organization of data, critical analysis, communication of conclusions, and presentation skills. Through case studies, students will enhance their problem-solving skills by formulating solutions to problems which are encountered in accounting environments. PR: Senior Status. Instructor's consent.

ALLIED HEALTH

ALLH 1106. S-FSU Introduction to Pharmacology. 3 hrs.

This course is designed to introduce the student to basic concepts of classification, action and implications related to the administration of medications. It is required for nursing students. PR: BIOL 1170 or Licensed as a Practical Nurse. Offered spring semester only. Nursing majors only.

ALLH 1199. Special Topics in Allied Health 1-12 hours

Studies in special selected topics, to be determined by the instructor and approved by the School's chairman. Credits earned will be applicable as free electives in degree and certificate programs. Course is offered as needed.

ALLH 3301. Health Care Organizations. 3 hrs.

Organization, current legislation and the roles and relationships of the health care professions are discussed in detail. Emphasis is placed upon roles of hospital management. Factors of comprehensive health care, hospitals, and extended care facilities. Responsibility of the health care agency regarding competent and responsible care of patients is defined. Organization patterns in health care agencies, as well as contributions of health professionals and paraprofessionals in meeting human needs will be emphasized. PR: MGMT 3390 and INFO 1100. Fall Semester only.

ALLH 3302. Management Problems of the Health Care Delivery System. 3 hrs.

Fiscal, legal, supervisory having specific problems to health care facilities is discussed. Emphasis will be placed upon medical records and utilization review, as well as the role and limitations of the hospital in the health care system. The course will also cover the issue of inadequate access to health care in the US, with emphasis on the problems of poverty and the elderly regarding health care delivery. PR: ALLH 3301. Spring Semester.

ALLH 3341. Death and Dying. 3 hrs.
This course analyzes the impact of complex social change on death, humanity's most enduring mystery and most powerful taboo topic. Included are the study of past circumstances and future possibilities; death and dying from individual, family, and social/cultural perspectives; and examination of the concept from the perspectives of diverse academic disciplines, from history and sociology through medicine and psychology to literature and ethics. Also included are such controversial topics as life after death, care of the dying patient, funerals, and moral and ethical dilemmas. Fall Semester only.

ALLH 3372. Legal and Medical Ethics. 3 hrs.
This course is designed to acquaint the student with the legal and ethical responsibilities of the administrator involved in health care. Emphasis is placed upon legal issues as well as legal responsibilities and liabilities. Spring Semester only.

ALLH 3399. Special Topics in Allied Health Administration 1-6 hours
Studies in special selected topics in health administration and management are determined by the instructor and approved by the School's chairman. Credits earned will be applicable as free electives. Must be arranged in advance.

ALLH 4401. Allied Health Practicum and Seminar. 4 hrs.
Writing Intensive
This course brings together all the majors in the last semester of the program to experience a 90-hour administrative field experience, carry out a problem-solving project, and discuss problems and successes encountered in the experiences. Students will submit a comprehensive paper analyzing their project, which requires development of a problem statement, a literature review and the creation, implementation, and evaluation of a plan of action. Students prepare PowerPoint presentations of their assignments for classmates and preceptors at the end of the course. PR: Last semester of program. Spring semester only.

AMERICAN SIGN LANGUAGE COMMUNICATION PROGRAM

AMSL 1101 Deaf Culture and History. 3 hrs.
Introduction to the culture common to the Deaf through looking at their history of oppression starting in the 1800s up to the present time.

AMSL 1104 ASL Fingerspelling. 3 hrs.
This course will develop skills in expressive and receptive fingerspelling with emphasis on the proper form and use of the manual alphabet and numbers which will minimize carpal tunnel syndrome. PR: AMSL 1111

AMSL 1111 American Sign Language I. 3 hrs.
Attention is given to proper syntax and basic grammatical constructs. Over 500 signs are introduced and made into conversations enabling the student to express basic ideas. Non-verbal and pantomime use in language is emphasized. Students must concurrently enroll in AMSL 1199. This course is an eight weeks class requiring 5 hours of lecture and 2 hours of lab each week.

AMSL 1112 American Sign Language II. 3 hrs.
Continued sign vocabulary growth with introduction to idiomatic phrases. Emphasis is use of classifiers, expression, body postures, and the signing space. To be taken in conjunction in with AMSL 1111. Students must concurrently enroll in AMSL 1199. PR: AMSL 1111. This course is an eight weeks class requiring 5 hours of lecture and 2 hours of lab each week.

AMSL 1113 American Sign Language III. 3 hrs.
Sign vocabulary is intensified. Students will use familiar signs and learn the difference in meaning with the use of non-manual gestures. Students will be able to be fluent and maintain full conversations by using American Sign Language (ASL). Students must concurrently enroll in AMSL 1199. PR: AMSL 1112. This course is an eight weeks class requiring 5 hours of lecture and 2 hours of lab each week.

AMSL 1114 American Sign Language IV. 3 hrs.
Review of all signs learned. Local area signs learned from Deaf comparison of ethnic influences, slang, "home signs" and signs that have become obsolete will be discussed. English idioms and the signs chosen to represent them will be continued. Students must concurrently enroll in AMSL 1199. PR: AMSL 1113. This course is an eight weeks class requiring 5 hours of lecture and 2 hours of lab each week.

AMSL 1120 Deaf Studies. 3 hrs.
Students will be required to go out into the field and observe and attend workshop and works related to the deaf and interpreting. Student will write reaction papers. Observation will be 10 hours.

AMSL 1130 Interpreting Theory. 3 hrs.
This course explores terminology, procedures and ethical professional considerations relevant to interpreting and transliterating. Topics include the Registry of Interpreters for the Deaf, Code of Ethics application, structuring the interpreting environment, communication assessment, human relation skills, historic developments, and current trends.

AMSL 1199 Laboratory. zero hrs.
Students enrolled in AMSL 1111, 1112, 1113, and 1114 must concurrently enroll in AMSL 1199 to maintain their studying sign language. This lab meets two hours per week.

APPLIED DESIGN

APPD 1101. S-C&TC Principles of Clothing Construction. 3 hrs.
The student will study the application of principles of clothing construction in relationship to selection of compatible fabric and design to produce garments for individuals. The student will use various fabrics during the development of construction techniques, and will study the use and care of equipment and the techniques in pattern alterations.

APPD 1102 S-C&TC Apparel Design. 3 hrs.
This course explores the fashion design industry from creation of the designer collection through retail merchandising. The students will create their own collection and develop a merchandising plan. Apparel design software will be used, in addition to traditional design and rendering techniques.

APPD 1103. S-C&TC Clothing and Culture. 3 hrs.
This course is a cross-cultural study of clothing for the individual, family, and special needs groups. The course will cover fashion trends, fashion terminology, clothing and behavior, color and computer-aided body analysis, professional dress and management, and socio-psychological aspects of clothing.

APPD 1115 Introduction to the Fashion Industry. 3 hrs.
An overview of the fashion industry, past and present, with emphasis on career opportunities, the impact of fashion on world economy, and the fashion marketing system from manufacturer to consumer.

APPD 1116 S-C&TC History of Contemporary Fashion. 3 hrs.
The study of historical costume from ancient times through modem costume will be covered to understand the impact of historical costume on contemporary design. Students will participate in restoration and display of period garments from the Masquers Historical Costume Collection.

APPD 1140 Introduction to Interior Design. 3 hrs.
This course will include historical overview covering architectural and furniture periods, materials and components of Interior Design, and the design process through an introduction to drafting tools and techniques.

APPD 1151 Design Concepts. 3 hrs.
This course will explore the principles and elements of design and will allow students to apply their knowledge in a series of projects, both two and three dimensional with a variety of materials and media. Focus will be on how the basic principles apply to Fashion and Interior Design.

APPD 1199 Special Topics in Applied Design. 1-4 hrs.
This course will provide an opportunity for students to further their study of principles and concepts in Fashion or Interior Design and to apply their knowledge in a variety of applications both in the traditional classroom setting and in work/job related experiences. The class will be an individualized, arranged course, with learning outcomes determined by the instructor in consultation with the student. May be repeated up to 4 hours credit.

APPD 2202 Advanced Apparel Design. 4 hrs.
This course further develops student design abilities through the creation of an original collection. The role of the designer from fashion concept through merchandised products will be studied with emphasis on design principles and elements, silhouette, style, and fabrication in a variety of apparel categories. Computer based design will be included. Emphasis is on developing an original collection and portfolio development. PR: APPD 1102

APPD 2210. S-C&TC Textiles. 3 hrs.
The study of textile fibers from origin to end use will be covered. Consideration will be given to properties of textile fibers in relationship to performance and use, textile selection, maintenance for apparel and home furnishings, and textiles in the world economy.

APPD 2217 Visual Merchandising. 3 hrs.
Visual merchandising for retail stores will be covered in this course. Both window and interior display will be included. Students will plan a store layout to include visual display areas. The student will plan and execute creative displays, applying principles of merchandise selection, development of a theme, props and layout, lighting, and targeting the customer, at in-house and/or off campus sites. APPD 1115.

APPD 2240 Residential Design. 4 hrs.
Coordination of interior design components allows the students to develop and apply complete room plans and decorating schemes for various residential and commercial applications. Color, lighting, space needs and materials are covered. PR: APPD 1140.

APPD 2250. S-C&TC Design in Home Furnishings. 3 hrs.
The principles and elements of design are explored through an examination of home furnishings and accessories. The course will include a study of interior textiles, furnishings, window treatments, and the appropriate selection of enrichment accessories. Computer-aided design will be included.

APPD 2260 Contract Design. 4 hrs.
This course covers the design of various non-residential and public spaces with an emphasis on space planning, presentation skills, professional practices, interior systems, furnishings, and equipment. Students explore space as it relates to functional and aesthetic requirements including commercial code and access issues. Emphasis is on portfolio development. PR: APPD 1140

APPD 2275 Applied Design Practicum. 4 hrs.
Students will be placed in various businesses in the interior or fashion field to provide on-site training and experience. Preparation of an electronic portfolio and resume will be included. PR: APPD 1115 or APPD 1140.

APPD 2295 Guided Design Seminar. 4 hrs.
A seminar for Interior Design or Fashion Design students that will require students to select a project, research the problem, and make a final juried presentation. PR: APPD 2217 or APPD 2240.

APPD 3375. Professional Practice in Applied Design. 4 hrs.
The course will give students an opportunity to experience the business aspects of fashion merchandising or interior design through an on-the-job placement. An examination of location, financial concerns, staffing, marketing, managing, vendor relationships, and professional growth will be covered in this course, which will include an evaluation from the work experience supervisor. PR: APPD 2275.

ARCHITECTURAL ENGINEERING TECHNOLOGY

ARCH 1130. S-FSU Architectural History I. 3 hrs.
This course covers architectural history from prehistoric times through the Gothic period. The emphasis will be on the historical, social and technological factors behind the structures discussed.

ARCH 1160. S-FSU Architectural History II. 3 hrs.
This course is a continuation of architectural history, covering the Renaissance period to the present. The emphasis will be on the historical, social and technological factors behind the structures discussed. PR: ARCH 1130.

ARCH 2200. Graphics. 3 hrs.
This course is an introduction to architectural presentation drawings. The course emphasizes rendering techniques and perspective drawing. PR: DRFT 1100.

ARCH 2210. Design I. 4 hrs.
Introduction to developing design methodology and its integration into the process of design. Topics include form studies and theory, and incorporation of these into the design of architectural elements. Introduction of sketching, graphic and modeling skills to communicate design concepts. Emphasis on developing the student's presentation skills. PR: ARCH 1160, 2225, ART 1111

ARCH 2225. Architectural CADD. 3 hrs.
Introduction to computer-aided drafting and design. Will include an introduction to the basic drawing processes of the computer and subsequent application to design solutions in architecture.

ARCH 2250. Design II. 4 hrs.
A continuing study of design methodology as applicable to the design of simple structures. Emphasis on tectonics, as well as the nature of materials and the site. Further development of sketching, graphic and modeling skills as students learn to understand, interpret, and represent spaces and receive further training in presentation skills. Students will develop a first-year design portfolio. PR: ARCH 2210.

ARCH 3300. Design III. 4 hrs.
This class encompasses the investigation, synthesis and communication of characteristics of the built environment. Material covered includes programming of a building with respect to function, user, and site, and exploration of energy conservation and solar application. Students will develop a more advanced level of design, graphic skills, and 3-dimensional modeling. PR: ARCH 2250, CR: ARCH 3320.

ARCH 3310. Construction Details and Materials. 4 hrs.
This course is a comprehensive exploration of materials, structural systems and details in the context of commercial building design. Students will produce a set of working drawings for an architectural office setting. Baccalaureate majors only. PR: CIVL 2220, CR: ARCH 4450.

ARCH 3320. Site Planning. 3 hrs.
This course covers site analysis and the process of optimizing the relationship of a building to its site, taking into account the building's program and the natural environment. PR: ARCH 2250.

ARCH 3350. Design IV. 4 hrs.
This course explores architectural design in the context of the urban setting. Topics include urban design, historic preservation and the social impact of the built environment. Cultural and behavioral patterns will be explored. Students will develop further their modeling skills, graphic

communication, and oral communication. A second year portfolio will be developed. PR: ARCH 3300; CR: ARCH 4420.

ARCH 4420. Urban Design and Preservation. 3 hrs.
This course explores urban planning and the application of its basic principles to an urban context. History of urban design, urban development and historic preservation will be discussed and applied to design projects. PR: ARCH 3300, CR: ARCH 3350.

ARCH 4430. Mechanical and Electrical Systems. 3 hrs.
Introduction to the design of mechanical and electrical systems. PR: ARCH 2250.

ARCH 4450. Design V. 4 hrs.
This course encompasses architectural design as an integration of design concept and building technology. Concepts synthesized in the design process include structural systems, mechanical systems and building materials, as well as more sophisticated building design. Advanced graphic communications will be combined with computer applications. Baccalaureate majors only. PR: ARCH 3350, CR: ARCH 3310.

ARCH 4460. Design VI. 4 hrs.
Writing Intensive
Students in this class will execute comprehensive architectural designs of their own choice with the approval of the instructor. Concentration in the project may be in building technology, urban design, historical design, theory, environmental design or another approved topic. The student will develop the design concept, conduct research, develop the form and express the design of the structure at a sophisticated level of graphic and 3-dimensional skills. A third-year portfolio will be completed. PR: ARCH 4450.

ART

ART 1111. Art Fundamentals. 3 hrs.
An introduction to the elements and principles of design and the creative design process. Students will explore various media and techniques in two- and three-dimensional art forms. Architecture majors only.

ART 1120. S-FSU Art Appreciation. 3 hrs.
This introductory course is a study of art of the Western world. It explores the emergence of new forms and salient factors contributing to changes in art from prehistoric Europe to the contemporary West. The works of art are presented within their historical contexts.

ART 1140. S-FSU Design I: 2D 3 hrs.
The elements and principles of two-dimensional design are explored in this Foundations course. Students learn the vocabulary of two-dimensional design, and apply scholarly responses to visual images. Students explore, through visual problem-solving, issues of composition, color theory, content, and presentation. Students work with a variety of two-dimensional media in this studio course. Reading and writing assignments accompany studio coursework.

ART 1141. S-FSU Design II: 3D 3 hrs.
The elements and principles of three-dimensional design are explored in this Foundations course. Students learn the vocabulary of three-dimensional design, and apply scholarly responses to visual images. Students explore, through visual problem-solving, issues of space, inherent properties of materials, and content in the three-dimensional realm. Students work with a variety of three-dimensional media in this studio course. Reading and writing assignments accompany studio coursework. PR: ART 1140.

ART 1142. S-FSU Drawing I: Foundations of Drawing. 3 hrs.
The development of technical skills in various media, stressing observation, memory training and composition. Fall Semester only.

ART 1199. Special Topics in Art 1-12 hours
Studies in selected areas of specialization, to be determined by the instructor and approved by the School's Chair. Credits earned will be applicable as free electives in degree or certificate programs. Three hours maximum credit per semester.

ART 2230. Gallery Management 3 hrs.
Gallery Management is a course designed to teach students the basic techniques and practices of a gallery curator or museum assistant. All phases of planning and implementing an exhibition, or a series of exhibitions, will be considered. Students will be involved in all aspects of the day-to-day management of the Brooks Gallery.
May be repeated once. Offered Fall and Spring.

ART 2241. S-FSU Drawing II: Drawing from Life. 3 hrs.
Drawing from the posed model, accompanied by analytical studies of anatomy. PR: ART 1142. Spring semester only.

ART 2261. S-FSU Painting I: Foundations of Painting. 3 hrs.
An introductory course using acrylic paint, exploring techniques of paint application and painting supports, while painting from still-life and landscape. PR: ART 1141, 1142.

ART 2262. Painting II: Intermediate Painting. 3 hrs.
An introductory course using oil paint to explore techniques of paint application and painting supports while working from the live model. PR: ART 1141, 2241.

ART 2283. S-FSU Sculpture I: Foundations of Sculpture. 3 hrs.
Introductory course using clay modeling, plaster and metal sculpture.

ART 2284. Sculpture II. 3 hrs.
Advanced work in various sculptural media: metal casting, carving, constructions, etc. PR: ART 2283.

ART 3341. Printmaking I. 3 hrs.
Introduction to various techniques in printmaking as an artistic expression. PR: ART 1142. Spring semester only.

ART 3342. Printmaking II. 3 hrs.
Printmaking II is an intermediate to advanced level printmaking studio course in which students utilize skills and processes learned in Printmaking I to further develop images in various media. PR: ART 3341

ART 3350. Elementary Art Education 3 hrs.
An introduction to teaching art in the elementary classroom, the course focuses on fundamental principles of artistic development in children, and within that context, provides rationales and methodology for recognizing, creating and utilizing quality art curricula in elementary classrooms. National Standards in Art Education are used as the framework for content, skills, and materials utilized and applied in the course.

ART 3353. Elementary Art Education I. 2 hrs.
Experiences and theory designed to prepare students to teach art on the kindergarten/primary level. Students will engage in directed experiences in two- and three-dimensional media such as drawing, painting, poster, sculpture, and design.

ART 3354. Elementary Art Education II. 2 hrs.
The theories, philosophy, and methods of teaching art in elementary school. Experiences supplemented with references to the needs of students in teaching grades 5-8. PR: ART 3353.

ART 3355. Problems in Teaching Art I. 2 hrs.
The student will define art problems, describe the teachable aspects of art, examine what motivation is in art and in connection with particular art problems and produce some art objects utilizing media and materials generally obtainable in most elementary schools. Art Majors.

ART 3356. Problems in Teaching Art II. 2 hrs.
The student will define art problems on the secondary level, examine how skill and success are related in studio art, utilize historical art examples, observe how art and society are related, define what is teachable in art and select specific art problems in conjunction with the age level and interests of secondary students. PR: ART 3355. Art Majors.

ART 3361. Painting III: Intermediate Landscape Painting. 3 hrs.
Personal development in painting from the landscape with oil or acrylic paint. PR: ART 2261, 2262. Fall semester only.

ART 3362. Painting IV: Intermediate Figure Painting. 3 hrs.
Personal development in painting from the live model with oil or acrylic paint. PR: ART 2261, 2262 or instructor's consent.

ART 3363. Intermediate Water Media I. 3 hrs.
Introductory course in the fundamental techniques of watercolor, while painting from still-lifes and landscape. PR: ART 1141, 2241.

ART 3364. Advanced Water Media II. 3 hrs.
Continuation of ART 3363, emphasizing advanced techniques and individual creative development. PR: 3363.

ART 3374. S-FSU Art History from Prehistory to 1450. 3 hrs.
Writing Intensive
The major monuments and periods of the history of art will be discussed within their historical and cultural contexts, from prehistory to the end of the Middle Ages. Students will be expected to understand the religious, political and technical concepts which underpin these ideas as they relate to Western and non-Western cultures. Offered once every four semesters.

ART 3376. Art History from 1450 to 1750. 3 hrs.
Writing Intensive
The major movements and artists associated with the Renaissance, Baroque and Rococo movements will be investigated within their historical and cultural contexts. Students will consider the theory and criticism appropriate to these periods, together with primary texts produced by the artists. Offered once every four semesters.

ART 3378. Art History from 1750 to 1950. 3 hrs. Writing Intensive
This course will consider the major movements and artists from the Neo-Classical through the Modern periods. The monuments will be examined within the context of their historical, political and cultural milieux, with the theory and criticism of the various movements given serious study. Offered once every four semesters.

ART 3380. Art History since 1950. 3 hrs.
Writing Intensive
The major movements and artists associated with the developments of European and American art since 1950 will form the basis for the course. The issues will be set within their historical, aesthetic and critical contexts. Both the history of art and of theory will be considered. Offered once every four semesters.

ART 3383. Pottery I. 2-3 hrs.
Introduction to basic ceramic techniques such as hand construction, the potter's wheel, glazing and kiln firing.

ART 3384. Pottery II. 2-3 hrs.
Advanced work in ceramic sculpture, wheel-thrown ceramics, glaze theory, kiln firing and kiln construction. PR: ART 3383.

ART 4431. Methods and Materials in Teaching Art. 3 hrs.
Planning for and examination of problems for junior and senior high schools. Coordinated with the Education Department and the public schools. Designed for student teachers and teachers in-service. PR: ART 3356, PPST (passing score)

ART 4461. Painting V: Advanced Landscape Painting. 3 hrs.
Development of individual creative expression in oil or acrylic, working from the landscape. PR: ART 3361.

ART 4462. Painting VI: Advanced Figure Painting. 3 hrs.
Development of individual creative expression in oil or acrylic while working from the live model. PR: ART 3362.

ART 4463. Advanced Painting Concepts. 3 hrs.
An advanced painting class in oil or acrylic, designed for those students who intend to prepare a professional portfolio for graduate school. The student is expected to explore his/her creative abilities while experimenting and bringing together the landscape and figure into a series of large paintings for exhibition purposes. PR: Instructor's consent.

ART 4464. Pottery III. 3 hrs.
The student is permitted to select the medium and then explore all the technical and creative possibilities that it permits. PR: ART 3384.

ART 4465. Sculpture III. 3 hrs.
The student is permitted to select the medium and then explore all the technical and creative possibilities that it permits.

ART 4467. Area Studies I 3 hrs.
Options in drawing, painting, pottery, sculpture, cross media, and printmaking. Art Majors Only.

ART 4468. Area Studies II 3 hrs.
Options in drawing, painting, pottery, cross media, printmaking and sculpture. Art Majors Only.

ART 4469. Area Studies III. 3 hrs.
Options in drawing, painting, pottery, cross media, printmaking and sculpture. Art Majors Only. Renewable for credit up to six hours in the same discipline.

ART 4470. Senior Exhibit. 1 hr.
Required of all art majors during their senior year: to organize and present a formal gallery exhibition of pieces selected from their college work. Slides of this exhibition are to be retained in the Art Department's archives. PR: Completion of all studio coursework or instructor's consent.

AVIATION

AVMT 1101 Introduction to Aviation Maintenance. 3 hrs.
A study of the fundamentals of Aviation Maintenance. Topics include: aircraft familiarization, nomenclature, materials, hardware used on aircraft, theory of flight, and basic physics. Meets FAR 147 requirements. Must have a "C" grade or better to pass.

AVMT 1102 Aircraft Regulations & Publications. 3 hrs.
A study of federal aviation regulations, maintenance publications, weight and balance, technical drawings, charts and graphs. Meets FAR 147 requirements. Must have a "C" grade or better to pass.

AVMT 1103 Aviation Shop Practices. 3 hrs.
A study of the use of basic hand tools and power equipment, shop safety, aircraft fluid lines and fittings, aircraft cleaning and corrosion control. The use and care of precision measuring equipment and the use and interpretation of various non-destructive inspection methods. Meets FAR 147 requirements. Must have a "C" grade or better to pass.

AVMT 1105 Aircraft Utility Systems. 3 hrs.
This course covers the areas of airframe ice and rain control systems, fire protection systems, (airframe and engine), and fuel systems (airframe and engine). Also included are transport aircraft systems including doors, lavatory systems, galley systems, passenger service units, windows, emergency equipment, and cargo loading systems. Meets FAR 147 requirements. Must have a "C" grade or better to pass.

AVMT 1106 Aircraft Information System. 3 hrs.
This is a study of the communication, navigation, and instrument systems of the aircraft and engine. PR: AVMT 1102, 1103. Meets FAR 147 requirements. Must have a "C" grade or better to pass.

AVMT 1109 Aircraft Electronics. 3 hrs.
This course examines the fundamental principles of electronics as applied to aircraft electrical systems. Specific topics covered include AC/DC, series-parallel circuits, circuit analysis theorems, transistors, digital theory and devices. Meets FAR 147 requirements. CR: Math 1101. Must have a "C" grade or better to pass.

AVMT 2201 Reciprocating Engines and System. 3 hrs.
This course is a study of the theory of operation of reciprocating engines and their systems. The course emphasizes the principles of operation, nomenclature, construction and system design. PR: AVMT 1102, 1103. CR: MATH 1101. Meets FAR 147 requirements. Must have a "C" grade or better to pass.

AVMT 2202 Aircraft Sheet Metal Structures. 3 hrs.
This course covers all aspects of sheet metal structures and aircraft welding. A strong emphasis is placed on acquiring hands-on skills. PR: AVMT 1102, 1103. CR: MATH 1101. Meets FAR 147 requirements. Must have a "C" grade or better to pass.

AVMT 2203 Reciprocating Engine Maintenance and Return to Service. 5 hrs.
This course emphasizes the hands-on maintenance and overhaul of piston engines. Topics include engine removal, replacement, troubleshooting, inspection, engine maintenance and overhaul, system component repair, inspection, and troubleshooting. PR: AVMT 1101, 2201. Meets FAR 147 requirements. Must have a "C" grade or better to pass.

AVMT 2204 Propeller and Control Systems. 3 hrs.
A detailed study of propellers, their components, operation and maintenance. PR: AVMT 1101, 2201. CR: AVMT 2203. Meets FAR 147 requirements. Must have a "C" grade or better to pass.

AVMT 2205 Turbine Engines and Systems. 3 hrs.
A study of the theory of operation of turbine engines and their systems. This course emphasizes the principles of operation, nomenclature, construction and system design. PR: AVMT 1102, 1103 and MATH 1101. Meets FAR 147 requirements. Must have a "C" grade or better to pass.

AVMT 2206 Aircraft Fluid Power and Landing Gear Systems. 3 hrs.
A detailed study of aircraft hydraulic, pneumatic and landing gear systems. This includes the study of airliner systems. PR: AVMT 1103, 1109 or instructor's consent. Meets FAR 147 requirements. Must have a "C" grade or better to pass.

AVMT 2207 Turbine Engine Maintenance and Inspection. 3 hrs.
This course emphasizes the hands-on maintenance, overhaul, repair, troubleshooting, and inspection of turbine engines and their systems. PR: AVMT 1103, 2205. Meets FAR 147 requirements. Must have a "C" grade or better to pass.

AVMT 2208 Cabin Atmosphere Control Systems. 3 hrs.
This course is a detailed study of aircraft heating, oxygen, air conditioning, and pressurization systems. Large airliner systems will be covered. PR: AVMT 1103, 1109. Meets FAR 147 requirements. Must have a "C" grade or better to pass.

AVMT 2209 Airframe Inspection and Flight Control Systems. 3 hrs.
A detailed study of aircraft control surfaces, including operation, assembly and rigging. Airframe inspection procedures are also covered. PR: AVMT 1105, 1109. Meets FAR 147 requirements. Must have a "C" grade or better to pass.

AVMT 2210. Non Metallic Structures. 3 hrs.
A study of wood, fabric, composite and plastic aircraft structures; also covered is the finishing of these structures. PR: AVMT 1102, 1103. Meets FAR 147 requirements. Must have a "C" grade or better to pass.

AVIATION ADMINISTRATION

AVMA 1100 Aircraft Flight Theory. 3 hrs.
A study of the subject areas and information needed to operate as a private pilot in the aviation environment. Must have a "C" grade or better to pass.

AVMA 1101 Private Pilot Technology. 3 hrs.
The course is designed to provide successful Private Pilot candidates with the basic skills and knowledge necessary for certification as a Private Pilot under Part 141, Appendix B, of the Federal Air Regulations. The course will consist of approximately 50 contact hours of classroom based ground school instruction and a minimum of 35 hours of logged flight training (total flight hours may vary depending on individual student ability). Students are expected to immediately take the Private Pilot Knowledge Test upon completion of their Private Pilot Ground School component. Students will be signed-off to take the Private Pilot Practical Flight Exam, as required by FAA certification, upon successful completion of all flight requirements. Must have a "C" grade or better to pass.

AVMA 1102 Introduction to Air Traffic Control. 3 hrs.
This course provides a description of basic air traffic control procedures and phraseology used by personnel providing air traffic control services. Topics include the history of air traffic control, definitions, basic phraseology, airspace utilization, and air navigation and Federal Aviation Administration rules governing air traffic control. Must have a "C" grade or better to pass.

AVMA 1109 Air Rescue Fire Fighting. 3 hrs.
This course is designed to provide the beginning student with a basic understanding of the principles and methodology of Air Rescue and Fire Fighting in aircraft incidents both on and off the airfield. It reviews the physics of fire and the different types of fires that are extinguished during the first responders handling of different aircraft emergencies. The student will be able to identify the different types of fire fighting retardants and the correct application of each. The student will be trained in the correct procedures for approaching aircraft in emergency situations, gaining access to crashed aircraft, the safe extraction of survivors, and basic triage procedures. The students will also be able to explain how to secure a crash site and the damaged aircraft. They will also have an understanding of the handling of hazardous materials at the scene of an incident. PR: Major in Homeland Security. Must have a "C" grade or better to pass. Aviation or Homeland Security majors only.

AVMA 1199 Special Topics. 1-12 hrs.
A study of special topics of educational, technical or industrial concern. Must have a "C" grade or better to pass.

AVMA 2201 Instrument Pilot Technology. 3 hrs.
The course is designed to provide successful Instrument Pilot candidates with the basic skills and knowledge necessary for certification as Instrument rated Private Pilot in accordance with the minimum requirements as set forth in Part 141, Appendix B, of the Federal Air Regulations. The course will consist of approximately 30 contact hours of classroom based instrument ground school instruction and a minimum of 35 hours of logged instrument flight training (total flight hours may vary depending on individual student ability). A portion of the instrument flight training may be conducted on a Personal Computer-Based Aviation Training Device (PCATD); up to 10 hours toward flight requirements and 5 hours toward ground school requirements. Students will be expected to immediately take the FAA approved Instrument Pilot Airman Knowledge Test upon completion of their Instrument Ground School component. Students will be signed-off to take the Instrument Pilot Practical Flight Exam required for FAA certification upon successful completion of all flight requirements. PR: Private Pilot certification. Must have a "C" grade or better to pass.

AVMA 2206 Aviation Security. 3 hrs.

This course is designed to provide the beginning student with a basic understanding of the history of aircraft security in the aviation industry. The changing nature of aviation security over the years and how it has impacted society will be discussed. It will discuss and analyze the different methodologies of aviation security both in domestic and foreign methodologies. The course will also examine the industries responses to the changes in aircraft security in both general, corporate, and transport aviation. It will also address the needs of aviation personnel for security both in the air and on the ground. PR: Major in Homeland Security. Must have a "C" grade or better to pass. Aviation or Homeland Security majors only.

AVMA 2210 Aviation Meteorology. 3 hrs.

A survey of the basic concepts and processes of atmospheric phenomena and their relation to aeronautical conditions. Must have a "C" grade or better to pass.

AVMA 2211 Airport Management. 3 hrs.

This course presents a study of airfield operations, and management with a focus on the role of the airport manager, the role of the airport in the community, budgeting, marketing and tenant relationships. Must have a "C" grade or better to pass.

AVMA 2213 Airport Planning and Development. 3 hrs.

The principles of airport system planning and airport master planning will be studied. Airport design standards, historical evolution of airports, key airport legislation and environmental impact planning for airports are key course topics. Must have a "C" grade or better to pass.

AVMA 2214 Advanced Air Traffic Control Procedures. 3 hrs.

This course is designed to prepare the student to successfully complete the FAA Air Traffic Controller screening exams. Topics covered include: Tower procedures, aircraft separation, departures/arrivals, special procedures. Must have a "C" grade or better to pass.

AVMA 2225 Airline Transport Security. 3 hrs.

This course is designed to provide the beginning student with a basic understanding of the airline transport security system currently in use at major airports around the world. The student will be trained in security considerations at both the airport terminal and in the air. The student will be familiar security requirements as set by the Transportation Security Administration.

The student will demonstrate knowledge of security responsibilities of screeners and other security personnel, submission to screening and inspection, procedures security and handling of interference with screening personnel, carriage of weapons, explosives, and incendiaries by individuals. The student will demonstrate knowledge of security of a secured area, security of the air operations area, security of the security identification display area, access control systems, and Law enforcement support. The student will be trained in procedures currently in place to provide in-flight safety of the crew and airline passengers. PR: Major in Homeland Security. Must have a "C" grade or better to pass. Aviation or Homeland Security majors only.

AVMA 2299 Special Topics 1-12 hrs.

A study of special topics of educational, technical or industrial concern. Must have a "C" grade or better to pass.

AVMA 3300. Commercial Pilot Technology. 3 hrs.

The course is designed to provide successful Commercial Pilot candidates with the basic skills and knowledge necessary for certification as Commercial Pilot in accordance with the minimum requirements set forth in Part 141, Appendix B of the Federal Air Regulations. The course will consist of approximately 35 contact hours of classroom based Commercial Pilot Ground School instruction and a minimum of 120 hours of logged Commercial Pilot Flight Training (total flight hours may vary depending on individual student ability). Students will be expected to immediately take the FAA approved Commercial Pilot Airman Knowledge Test upon completion of their Commercial Pilot Ground School component. Students will be signed-off to take the Commercial Pilot Practical Flight Exam for final FAA certification upon successful completion of all flight requirements. PR: Private Pilot and Instrument Pilot certifications or instructor's consent.

AVMA 3301. Aviation History. 3 hrs.

This course traces man's effort to achieve and sustain flight, from early mythology to the present. Special emphasis is given to the evolution of the airplane.

AVMA 3302. Aviation Law. 3 hrs.

A study of the legal issues and case law/decisions affecting the aviation industry. Topics covered include contracts, liabilities, rights of operators, criminal statutes and the U.S. legal system, as applied to aviation.

AVMA 3303. Airline Operations. 3 hrs.

A study of the administrative aspects of airline operation and management, including a detailed study of airline organization, structure and operational issues. Topics to be covered include airline history, economics, pricing, marketing, fleet planning and labor relations. A case study approach will be used to study individual airlines and/or airline-related issues.

AVMA 3304. Aviation Maintenance Management. 3 hrs.

This course provides instruction concerning the functions and responsibilities of the aviation maintenance manager. Maintenance management in general aviation, regional airlines and major and national airlines will be studied.

AVMA 3305. General Aviation Operations. 3 hrs.

A study of the general aviation industry, including general aviation aircraft manufacturing, fixed-base operations and corporate flight departments. A basic definition of general aviation, its role and major components will be covered.

AVMA 3307. Aviation Safety. 3 hrs.

This course introduces the student to various aspects of aviation safety, including flight safety, ground safety and management and planning for safety in aviation. Case studies of individual aviation incidents, safety studies and accidents will be presented. Baccalaureate majors only.

AVMA 3399. Special Topics. 1-12 hrs.

A study of special topics of educational, technical or industrial concern. PR: instructor's consent.

AVMA 4401. Trends and Current Issues in Air Transportation. 3 hrs.

This course presents an analysis of selected contemporary issues, problems and trends facing various segments of the aviation industry (manufacturers, airlines, general aviation and government). Students will apply previously learned principles to practical problems in the aviation industry.

AVMA 4402. Fiscal Aspects of Aviation Management. 3 hrs.

This course will provide an introduction to financial management problems encountered in aviation management. Topics include basic accounting, financial management principles, cash flow analysis, budgeting and financial statement analysis.

AVMA 4403. Aviation Project. 1-4 hrs.

Independent study, primarily for seniors who wish to pursue further studies in special areas. Subject must be arranged with the instructor before enrolling in the course.

AVMA 4404. Advanced Composite Structures. 3 hrs.

An in-depth study of the inspection and repair of aircraft composite structures. Baccalaureate majors only.

AVMA 4405. Advanced Non-Destructive Testing. 3 hrs.

A detailed study of non-destructive testing methods used on aircraft. This course prepares the student for ASNT Level I certification. Baccalaureate majors only.

AVMA 4499. Special Topics. 1-12 hrs.
A study of special topics of educational, technical or industrial concern. PR: instructor's consent.

AVIONICS

AVIO 1102 Principles of Radio Transmitters and Receivers. 3 hrs.
This course examines the fundamental principles of radio communications. Specific topics include RF generation, amplification, filtering, frequency conversion, types of modulation, propagation characteristics of RF waves, bandwidth considerations, and other topics related to the transmission, reception, and processing of RF signals. PR: ELEC 1100. Must have a "C" grade or better to pass.

AVIO 1110 Aircraft Power Generation and Distribution Systems. 3 hrs.
This course examines DC and AC power generation systems, generator paralleling, voltage regulation, power distribution and circuit protection devices, and DC and AC machines used in aircraft systems. Emphasis is on developing an understanding of the systems adequate to test, inspect, troubleshoot, and repair at the system and component levels. PR: ELEC 1100 or instructor's consent. Must have a "C" grade or better to pass.

AVIO 2200 Electronic Flight Management Systems. 3 hrs.
This course introduces the student to the principles of operation of various Flight Management Systems including: auto-pilot, automatic test equipment (BITE), EICAS, and on-board flight management computers. PR: AVIO 1110, ELEC 1100. Must have a "C" grade or better to pass.

AVIO 2202 Instrument Landing Systems. 3 hrs.
This course introduces the student to the theory of operation, troubleshooting and operational checks of instrument landing systems. PR: AVIO 1102. Must have a "C" grade or better to pass.

AVIO 2204 Aircraft Navigation Systems. 3 hrs.
This course focuses on flight navigation equipment used in modern aircraft. The course will introduce the student to the operating principles, components and troubleshooting procedures for navigation systems. PR: AVIO 1102. Must have a "C" grade or better to pass.

AVIO 2206 Aircraft Communication Systems. 3 hrs.
This course introduces the student to the theory of operation and "Black Box" level maintenance of airborne communications equipment including VHF/HF radios, antennas, interphones, P.A. systems and passenger entertainment systems. PR: AVIO 1102. Must have a "C" grade or better to pass.

AVIO 2208 Avionics Maintenance Practices. 2 hrs.
This course introduces the Avionics student to the fundamentals of aircraft maintenance with the emphasis on developing manipulative skills. Must have a "C" grade or better to pass.

AVIO 2209 Aircraft Pulse and Radar Systems. 3 hrs.
This course examines aircraft pulsed microwave systems including weather radar, distance measuring equipment (DME), and ATC transponder systems. PR: AVIO 1102. Must have a "C" grade or better to pass.

AVIO 2210 FCC License Preparation. 2 hrs.
This course prepares the student to successfully complete the Federal Communication Commission's General Radio-Telephone License. PR: AVIO 1102. Must have a "C" grade or better to pass.

BIOLOGY

BIOL 1104. Biosphere. 4 hrs.
This course, designed for teacher education candidates, focuses on Earth's living systems. The major topics to be explored include biodiversity and populations (including evolution and systematics), ecosystems (nutrient cycles, trophic levels, biomes) and organisms (including life cycles, genetics, cells, and adaptations). The course includes integration of basic chemistry and atmospheric science. 4 hours of lecture/ discussion/activities per week. PR: Elementary Education majors only.

BIOL 1105. S-FSU Biological Principles I. 4 hrs.
This introductory course in population biology explores the organization and function of populations, including reproduction and transmission genetics, patterns and mechanisms of evolutionary change and the fundamental concepts of ecology. 3 hours of lecture and one 3-hour laboratory per week. PR: A score of 21 or better on the ACT Science Reasoning section or SCIE 1000 with a C or better. Fall semester only.

BIOL 1106. S-FSU Biological Principles II. 4 hrs.
This introductory course in cellular biology emphasizes the organization and functions common to all living cells. The major topics to be explored include cell organelle structure and function, the molecular basis of cell energetics, the cell cycle and basic molecular biology of the cell. 3 hours of lecture and one 3-hour laboratory per week. PR: A score of 21 or better on the ACT Science Reasoning section or SCIE 1000 with a C or better. Spring semester only.

BIOL 1170. S-C&TC Anatomy and Physiology. 3-4 hrs.
Examination of the architecture of cells, tissues, organs and organ systems relationships which interact in the total function of the human being. This examination will include a detailed study of the digestive, respiratory, excretory, nervous, reproductive and endocrine systems, as well as their interactions with each other. 3-hour lecture and one two-hour lab per week. The course is designed for the Allied Health Program Majors, Nursing, Vet Tech, Med Tech and EMS and will not count as an elective toward any biology degree requirements. The 3-credit-hour option is open only to students in designated programs who will not take the lab.

BIOL 1199. Special Topics in Biology. 1-4 hrs.
Studies in special selected topics, to be determined by the instructor and approved by the department chair. Credits earned will be applicable as free electives in degree and certificate programs.

BIOL 2202. General Botany. 4 hrs.
The first part of this course will consist of a survey of the plant kingdom, including the fungi kingdom and selected groups of plant-like protists and bacteria. In the second part, the structure, development, and physiology of angiosperms will be examined. 3 hours of lecture and one 3-hour laboratory per week. PR: BIOL 1105 and 1106 with a C or better. Spring semester only.

BIOL 2203. General Zoology. 4 hrs.
A survey of the animal kingdom, this course emphasizes selected invertebrates and vertebrates. The focus will be on diversity and the significance of evolutionary changes. Students will investigate the basic concepts of morphology, anatomy, physiology and behavior as they affect the ecology of the animal. 3 hours of lecture and one 3-hour laboratory per week. PR: BIOL 1105 and 1106 with a C or better. Fall semester only.

BIOL 2205. S-FSU Technical Microbiology. 4 hrs.
Designed for the Allied Health Programs, this course emphasizes the history of microbiology, microbial morphology and structure; microbial growth and physiology; environmental effects on bacteria; inhibition and killing of bacteria; virulence, pathogenicity, and invasiveness of microbes; modes of disease transmission; resistance and immunity; techniques of isolation; handling, culturing, identifying bacteria and the inhibition of bacteria. Safety, cleanliness, and responsibility are taught in the laboratory. 3 hours of lecture and one two-hour lab per week. This

course is designed for the Allied Health Program Majors, Nursing, Vet Tech and Pre-Pharmacy. BIOL 2224 will not substitute for BIOL 2205 or vice versa. Spring semester only.

BIOL 2224. Microbiology. 4 hrs.
In this course, microorganisms (primarily bacteria) will be viewed from several perspectives; as pathogens, as components of ecosystems, and as components of industrial processes. Techniques for culturing and identifying bacteria will be presented. The course includes opportunities for students to design and conduct laboratory exercises. 3 hours of lecture and one 3-hour laboratory session per week. PR: BIOL 1105 and 1106 with a C or better, and CHEM 1105.

BIOL 2285. Tropical Studies. 4 hrs.
Students investigate the biodiversity of the Neotropics and their importance to global health. Special emphasis is placed on the fundamental dynamics operating in tropical forest ecosystems, and the impact that humans have on the health of these systems. Students participate in an eight-to-10 day intensive field experience in Costa Rica, exploring its rich and varied habitats, including cloud forests, lowland rainforests and agricultural systems. Class meets 4 hours per week, with travel to Costa Rica. Students pay the expenses for travel. PR: BIOL 1105 and 1106.

BIOL 3306. Fundamentals of Ecology. 4 hrs.
This course explores the fundamental principles of modern ecology: the patterns and processes operating in populations, communities and ecosystems. Population growth and regulation, energy flow, population interactions and nutrient cycling will be emphasized. Students will learn quantitative methods, use field techniques, and practice the scientific method. 3 hours of lecture and one 3-hour laboratory per week. PR: BIOL 2202 and 2203, with a C or better, and CHEM 1106, 1113. Fall semester only.

BIOL 3312. Advanced Botany I. 4 hrs.
This course provides an in-depth study of the plant kingdom. Primary emphasis is placed on understanding the structural characteristics, evolutionary relationships and ecological distribution of plants. 3 hours of lecture and one 3-hour laboratory per week. PR: BIOL 2202 with a C or better. Fall semester only, in even years.

BIOL 3315. Invertebrate Zoology. 4 hrs.
This course surveys the invertebrate phyla as they have evolved from single cell protists to multicellular chordates. Also considered are the attributes of these organisms that have allowed them to radiate from aquatic to terrestrial environments. Two hours of lecture and two two-hour laboratories per week. PR: BIOL 2202 and 2203 with a C or better and CHEM 1106 and CHEM 1113. Fall semester only, in odd years.

BIOL 3316. Vertebrate Zoology. 4 hrs.
An in-depth investigation of vertebrates, this course focuses on the evolutionary relationships among the major vertebrate groups, with an emphasis on physiological, morphological and behavioral adaptations, especially as they influence the ecology of the animal. 3 hours of lecture and one 3-hour laboratory per week. PR: BIOL 2203 with a C or better. Spring semester only, in even years.

BIOL 3330. Aquatic Ecology. 4 hrs.
This course focuses on physical and biological aspects of freshwater lakes and streams, emphasizing the application of ecological theory. Lectures will cover lentic (lake) and lotic (stream), wetlands and groundwater ecology. The laboratories are field-oriented and allow students the opportunity to use state-of-the-art instrumentation while applying lessons learned in the classroom. 3 hours of lecture and one 3-hour laboratory per week. PR: BIOL 3306 with a C or better. Fall semester only, in even years.

BIOL 3331. Terrestrial Ecology. 4 hrs.
This course will start with the foundation from Fundamentals of Ecology and examine more closely the relationships between organisms and their terrestrial environment. A number of different ecological sampling and research methods will be studied and utilized. 3 hours of lecture and one 3-hour laboratory per week. PR: BIOL 3306 with a C or better. Fall semester only, in odd years.

BIOL 3340. Evolution. 4 hrs.
An overview of the principles and applications of evolutionary biology. The major topics that will be explored are history of life on earth, mechanisms of evolution, behavioral ecology, biogeography, molecular evolution, human evolution and evolutionary medicine. 4 hours of lecture per week. PR: BIOL 2202 & 2203 with a C or better.

BIOL 3350. Comparative Vertebrate Anatomy. 4 hrs.
An in-depth exploration of vertebrate morphology, this course emphasizes the evolutionary modifications in vertebrate form that have contributed to the ecological success of the group. Morphological changes are examined as functional adaptations that have enabled vertebrates to occupy all the varied habitats of the planet. Topics of study may include the emergence of the jaw and teeth, skull kinesis, the vertebral column, the transition to lung respiration, modes of locomotion, the vertebrate heart and homeothermy and the vertebrate kidney. Two hours of lecture and two two-hour laboratories per week. PR: BIOL 2203 with a C or better.

BIOL 3360. Biochemistry. 4 hrs.
This course is a study of general principles of biochemistry, including the synthesis and metabolism of carbohydrates, proteins, lipids and nucleic acids. The course integrates theory, concepts and applications. It encompasses the molecules of life, the dynamic function of biomolecules, the storage and transfer of biological information and bioenergetics of cells and organ systems. 4 hours of lecture per week. PR: CHEM 2202, and either MATH 1185 or MATH 1190. Spring semester only, in even years.

BIOL 3368. Animal Physiology. 4 hrs.
This course explores the fundamental functional processes of animals. Major topics may include energetics, digestion, neurology, endocrinology, immunology, muscle physiology, circulatory physiology, respiratory physiology, osmoregulation and thermoregulation. The emphasis will be on the investigation of physiological processes as evolutionary adaptations. Students will cooperatively design and complete research projects. 3 hours of lecture and one 3-hour lab per week. PR: BIOL 2203 with a C or better, CHEM 1106 and 1113. Spring semester only, in even years.

BIOL 3370. Plant Physiology. 4 hrs.
Plant physiology is the study of how plants function. Major topics will include transpiration, plant nutrition, photosynthesis, hormone regulation of plant development, plant movement and responses to environmental stresses. Students will be expected to design and complete physiology research projects. 3 hours of lecture and one 3-hour laboratory per week. PR: BIOL 2202 with a C or better, and CHEM 1106 and 1113. Spring semester only, in odd years.

BIOL 3380. Genetics. 4 hrs.
This course builds upon genetic principles introduced in Biology 105 and 106. Topics covered include extensions of Mendelian genetics, gene mapping, chromosomal structure and mutation, DNA replication, mutation and repair and gene expression and its regulation. 3 hours of lecture and one 3-hour laboratory session per week. PR: CHEM 1106 and 1113, BIOL 1105 and 1106. Fall semester only.

BIOL 3390. Molecular Biotechnology. 4 hrs.
Writing Intensive
This course is a study of the theoretical basis of techniques used in biotechnology, and the application of these techniques to biological research in academic and industrial settings. 3 hours of lecture and one 3-hour laboratory per week. PR: BIOL 3380, CHEM 2201, and either MATH 1185 or MATH 1190. Spring semester only.

BIOL 4420. Developmental Biology. 4 hrs.
This course contains a detailed study of gametogenesis, fertilization and embryonic development patterns of organisms. The role of gene expression in these events will be emphasized. 3 hours of lecture and one 3-hour laboratory per week. PR: BIOL 2202 and 2203 with a C or better. Spring semester only, in odd years.

BIOL 4485. Senior Seminar. 2 hrs.
This culminating experience requires students to utilize their knowledge of biology, as well as their analytical and critical thinking skills, to explore important topics in the biological sciences in a cooperative learning environment. Students will be expected to read, interpret, moderate discussions and formally present information from current research and review papers to an audience of their peers and biology faculty. Two hours of class meeting per week. PR: Senior standing. Spring semester only.

BIOL 4495. Problems in Biological Sciences. 2 hrs.
This course is designed for students who have interest in a specific problem in biology. It should not be used as a means of meeting requirements but rather as a research course that goes beyond the usual courses in developing the student's body of knowledge. PR: 20 hours of biological courses and instructor's consent.

BUSINESS ADMINISTRATION

BUSN 1102 S-C&TC Introduction to Business. 3 hrs.
This entry-level course helps the student when choosing a major. The course is a survey of the various fields of business designed to acquaint the student with the basic principles, practices, and employment opportunities of each field.

BUSN 1141 S-C&TC Business Mathematics. 3 hrs.
This course is designed to provide knowledge and skill in the computation of the practical problems of business. The course content is an introduction to procedures in the fields of accounting, business finance, marketing, and related business subjects. (This course does not meet the Liberal Studies math requirement. Juniors and seniors in any four-year Business major are not permitted to take this class unless it is specifically required in the major.)

BUSN 1199 S-FSU Special Topics in Business. 1 - 12 hrs.
Studies in special selected topics. The topic to be studied will be determined by the instructor and approved by the Business Technology Coordinator. Credits earned will be applicable as free electives in degree and certificate programs.

BUSN 2205 S-FSU Small Business Fundamentals. 3 hrs.
An introductory course designed to familiarize students with small business dynamics. Students analyze personal strengths and weaknesses relative to launching an entrepreneurial career. Attention is given to planning, financing, starting, and managing a new business.

BUSN 2210 S-C&TC Human Relations in Business. 3 hrs.
The goal of this course is to teach skills and procedures and to raise students' awareness level for the many issues involving relationships on the job. Students will be exposed to the most significant human relations issues in today's workplace and will explore the relationship between effective human relations skills and ongoing career success. PR: BUSN 1102.

BUSN 2251 S-FSU Corporate Communications. 3 hrs.
Writing Intensive
This course focuses on writing effective business correspondence including letters, memos, and e-mail messages. Interpersonal communications in the workplace are also addressed. This course also deals with the preparation and presentation of professional reports. The various forms of communication necessary for job hunting, including resumes and application letter, are also integrated into the course. PR: ENGL 1104.

BUSN 3300. Entrepreneurship. 3 hrs.
An applied course designed to simulate the experiences that entrepreneurs undergo in conceiving, evaluating, launching and operating a new business venture. The course allows students to examine potential entrepreneurial careers for themselves. The major project involves preparing and presenting a business plan for a potential new venture. PR: BUSN 2205.

BUSN 3306. Business Law I. 3 hrs.
A study of the nature and function of our legal system, courts, and procedures as they relate to business, including the law of contracts and sales.

BUSN 3307. Business Law II. 3 hrs.
Continuation of BUSN 3306. Substantive investigation of the law regarding corporations, commercial paper, agency, partnership and the legal basis of property as applied to business situations. Business 3307 will not satisfy the 3-hour requirement in the teaching fields in Business Education. PR: BUSN 3306.

BUSN 3310. Business and Economic Statistics. 3 hrs.
The course provides students with an introductory survey of business statistics. It covers three main units: descriptive statistics and data analysis, foundations of inference and inferential statistics. PR: Completion of the Liberal Studies math requirement.

BUSN 3319. Employment Law. 3 hrs.
This course explores the relationship between employer and employee. It covers a mixture of contract, tort, criminal and administrative law. Study will include the statutory and common law rules governing the establishment and termination of the employment relationship and regulating the conditions of employment. The course is designed to develop understanding of the major areas of modern employment law so that students can apply the principles as an employer or an employee. PR: BUSN 3307.

BUSN 3320. International Business. 3 hrs.
This is an introductory course, designed to expose students to the nature of international business and the cultural, social, political, economic and technological forces that make up its environment. Students will study the importance of international trade and organizations, as well as the international monetary system and its impact on businesses, current international business developments, projected long-term global trends, unique opportunities, problems, ethical issues, characteristics and demands facing entrepreneurs and business personnel engaged in international business.

BUSN 3325. Women and Work. 3 hrs.
This course will analyze the social organization of women's work in the United States today and in the past. Students will examine the relationship between women's socialization, sense of self, family roles and the social, economic, and political forces which shape women's work. Topics will include affirmative action and comparable work, unionization, sexual harassment and traditional and nontraditional roles.

BUSN 3330 Business Intelligence. 3 hrs.
This course is an overview of the business intelligence process including information collection, intelligence analysis, and intelligence process assessment.

BUSN 3340. Advanced Business Law for Managers. 3 hrs.
Survey of legal problems encountered by finance executives, certified public accountants, and entrepreneurs, including secured transactions, bankruptcy, partnership, corporations, contracts, antitrust, and SEC law. PR: BUSN 3307.

BUSN 3399. Special Topics in Business. 1-6 hours
Advanced studies in special selected topics, to be determined by the instructor and approved by the School Dean. Credits earned will be applicable as free electives in degree programs. PR: instructor's consent.

BUSN 4405. Entrepreneurial Leadership. 3 hrs.
The latest concepts and applications in entrepreneurial leadership will be the focus of this course. Its content will therefore vary each semester to provide the student with exposure to the most recent developments in this area. Critical leadership, ethical and information-age challenges are examined to facilitate successful entrepreneurial endeavors. Students are involved in a variety of activities emphasizing integration of entrepreneurial topics in work and life. Discussion, role play, case study analysis, and small group learning will be used. PR: BUSN 3300 or instructor's consent.

BUSN 4408. Business and Economics Field Studies. 3 hrs.

This field experience, designed for business majors, actively engages students in a monitored work experience related to their major. Students may work independently or in teams, with guidance from a supervising faculty member on a specific project that benefits both the student(s) and the participating business. PR: instructor's consent, with approval of the School Chair.

BUSN 4410. Enterprise Development. 3 hrs.

This is a capstone course whereby students continue to develop and refine their business plan or begin actual operation of their business venture. Students are expected to participate in the daily operation of their enterprise and report to the faculty facilitator on a regular basis. This course is offered on a credit/no credit basis. PR: BUSN 3315 and 3340, instructor's consent.

BUSN 4415. Strategic Management and Policy. 3 hrs.
Writing Intensive

This course allows the student to integrate the concepts and principles offered in the various disciplines of study within the School of Business. Through the process of case analysis, students will enhance their analytic and problem-solving skills by formulating the policies and strategies that are used in modern business organizations. PR: ACCT 2202, FINC 2201 and senior standing.

BUSN 4420. BUSINESS AND SOCIETY. 3 HRS.

A course designed to foster an appreciation of the societal and ethical issues facing businesses and managers today, and to examine the influence these issues have on management decisions. PR: ECON 2202, BUSN 3307, junior standing, or instructor's consent. Students must be enrolled in a B.S. in Business Administration major.

BUSN 4440. Hospitality Management Internship.

This internship course is designed as a learning experience which integrates food service and business theory with actual job experience, in a hospitality management-related work environment. The student must be enrolled in the four-year Hospitality Management program. The employer is responsible for evaluating and reporting the development of the student. PR: instructor's consent, with approval of School Dean. Graded Credit/No Credit.

BUSN 4450. Business and Economics Internship. 3-12 hrs.

This business internship is designed to provide the business major with supervised work experience in a sponsoring organization. The student is expected to complete a minimum of 200 hours in a meaningful and challenging position. PR: instructor's consent, with approval of School Dean. Graded Credit/No Credit.

BUSINESS EDUCATION

Note: For other courses related to this subject matter area, refer to the section titled Office Administration.

BUSN 1199. Special Topics in Business Education. 1-12 hrs.

Studies in special selected topics, to be determined by the instructor and approved by the School Dean. Credits earned will be applicable as free electives in degree and certificate programs. Fall Semester only.

BUSN 4431. Methods and Materials in Teaching Business Education. 3 hrs.

This course addresses teaching strategies for communication-related, computation-related, information-processing and basic business skills. The course offers a brief overview of business education at all levels and the professional role of the business teacher. Fall semester only. Students are advised to take BUSN 4431 the semester before Clinical 111/Student Teaching. PR: Successful completion of PPST PRAXIS TEST.

CHEMISTRY

CHEM 1101. S-FSU General Chemistry I. 4 hrs.

A study of the theoretical concepts needed to understand typical chemical phenomena. The course addresses the nature of science, matter and measurements, the stoichiometry of chemical reactions, solutions and the calculation of concentration, energy relationships in chemistry, modern atomic theory, chemical bonding and molecular structure and the classification of reactions. 3 lectures and one 3-hour laboratory per week. PR: ACT math score of 19; or SAT Math score of 460 or Compass score of 36 or Elementary Algebra 0095.

CHEM 1102. S-FSU General Chemistry II. 4 hrs.

This course is an extension of CHEM 1101. It covers acid-base theory, chemical equilibrium, oxidation-reduction and an introduction to organic chemistry which includes the various classes of organic compounds, their nomenclature, structure, properties and reactions. The synthesis of polymers and their uses are included. The course consists of 3 hours of lecture and one 3-hour laboratory per week. PR: CHEM 1101. Spring semester only.

CHEM 1105. S-FSU Chemical Principles. 5 hrs.

This course and the following one, CHEM 1106, constitute an introduction to modern chemistry and its applications to society, including structure, nomenclature, properties and simple reactivity of inorganic and organic chemicals, descriptive chemistry, periodic properties, spectroscopy, stoichiometry involving solids, gases and solutions, basic thermodynamics, chemical equilibrium (acid/base and solubility), introductory kinetics, biochemistry, electrochemistry and nuclear chemistry. 4 hours of lecture and one 3-hour laboratory per week. PR: ACT math score of 20; SAT Math 480, Compass score of 42 or CHEM 1101 with a grade of C or better. Fall semester only.

CHEM 1106. S-FSU Chemical Principles II. 4 hrs.

Continuation of CHEM 1105. 3 hours of lecture and one 3-hour laboratory per week. PR: CHEM 1105. Spring semester only.

CHEM 1113. Practical Scientific Statistics with a Spreadsheet. 1 hr.

Designed for students in any scientific field, this self-paced online course covers the basics of analyzing scientific data sets with statistics. Topics include error propagation, median, mean and standard deviation, t-test, q-test, hypothesis testing, linear regression analysis, creation of appropriate graphs and use of calibration curves. Three on-campus course meetings are required. PR: MATH 1112 or BIOL 1105 or CHEM 1105 or PHYS 1101 or ACT math score of 20; or SAT Math score of 480 or Compass score of 42. Spring semester only.

CHEM 1199. Special Topics in Chemistry. 1-12 hrs.

Studies in special selected topics, to be determined by the instructor and approved by the department chair. Credits earned will be applicable as free electives in degree and certificate programs.

CHEM 2201. Organic Chemistry I. 4 hrs.

This course is a systematic study of organic chemistry with emphasis on kinetic behavior, reaction mechanisms and structural relationships. It includes the study of all major classes of organic compounds and functional groups. The course consists of 3 hours of lecture and one 3-hour laboratory per week. PR: CHEM 1106. Fall semester only.

CHEM 2202. Organic Chemistry II. 4 hrs.

This course is a continuation of CHEM 2201 and consists of 3 hours of lecture and one 3-hour laboratory per week. PR: CHEM 2201. Spring semester only.

CHEM 2205. Analytical Chemistry. 4 hrs.

Classical methods of chemical analysis, with emphasis on quantitative techniques. Also includes theory of acid-base, precipitation and oxidation methods, molecular structure, and an introduction to electrochemistry and spectroscopy. 3 hours of lecture and one 3-hour laboratory per week. PR: CHEM 1106, 1113. Fall semester only.

CHEM 2215. Intermediate Instrumental Analysis. 4 hrs.
This course includes the study of the basic concepts of instrument design and construction, operation of chemical instrumentation, use of standard procedures of analysis (including forensic and environmental methods), and method development for specific analyses. Spectroscopic, chromatographic and electrochemical methods of analysis are included. The course consists of two hours of lecture and one four-hour laboratory per week. PR: CHEM 1106, 1113. Spring semester only.

CHEM 3301. Physical Chemistry I. 4 hrs.
This course consists of a rigorous treatment of chemical kinetics and thermodynamics, based on calculus and physics. The application of partial differentiation and mathematical software to chemical problems is specifically addressed during this course. The course consists of four lecture hours per week. PR: CHEM 2201, 2205, PHYS 1102 or 1106, MATH 1185 or 1190. Fall semester only.

CHEM 3302. Physical Chemistry II. 4 hrs.
This online course deals with the development of quantum chemistry. Elements of linear algebra, differential equations and mathematical software will be applied to chemical problems. Some synchronous electronic meetings are required. PR: CHEM 2202, 2215, 3301, MATH 1186 or 3315. Spring semester only.

CHEM 4401. Independent Study. 1-3 hrs.
Students elect to learn about a topic in greater depth than usual, or one not covered in the regular curriculum, under the supervision of a faculty member. PR: instructor's consent.

CHEM 4402. Internship. 1-3 hrs.
Students undertake a practical work experience with oversight from the chemistry department. At least two hours work experience is expected for every credit. A paper describing the experience is required. PR: instructor's consent.

CHEM 4403. Independent Research. 1-3 hrs.
Independent research under the direction of a faculty member. Course is repeatable up to three times. At least two hours in the laboratory are expected for every credit. A paper describing the research is required. PR: instructor's consent.

CHEM 4405. Advanced Integrated Laboratory. 1-2 hrs.
Writing Intensive
This variable-credit, repeatable course, taken during the junior and senior years, provides a capstone experience in the chemistry laboratory. Students learn to integrate the skills required of practicing chemical professionals. They synthesize and characterize organic and inorganic compounds, learn the use, design and limitations of modern computer-controlled chemical instrumentation, study spectroscopy, reaction rates and chemical equilibria, and perform computations on chemical systems. Over the course of four semesters (including at least 7 credits), students become increasingly responsible for independent design of experiential procedures. Written and oral communication skills are stressed throughout the sequence. The course consists of two laboratory hours per week for every credit hour. PR: CHEM 2201, 2205.

CHEM 4450. Advanced Inorganic Chemistry. 3 hrs.
This course consists of an advanced study of inorganic reactions, coordination compounds and theories based on quantum mechanical principles. The course consists of three lecture hours per week. PR: CHEM 3302. Fall semester only.

CHEM 4455. Advances in Modern Chemistry. 3 hrs.
An advanced class on current topics in the field of chemistry, covering a wide range of subjects. Topics include analytical, organic, inorganic, biological and physical chemistry. Course discussions are based on recent papers from the scientific literature. Students present a public seminar on a topic from the chemical literature as a capstone experience in this course. Three lecture hours per week. PR: CHEM 3302, or CR: CHEM 3302.

CIVIL ENGINEERING TECHNOLOGY

CIVL 2200. Introduction to Surveying. 3 hrs.
Topics in this course include theory of linear distance measurement, proper note keeping, transit/tape surveying techniques, leveling procedures, measurement of horizontal and vertical angles, stadia, bearings and azimuths, rectangular coordinates, topography and mapping techniques. Students will learn to use all types of surveying equipment, including levels, transits, theodolites, total stations, and Electronic Distance Measurements (EDM) devices. CR: MATH 1101.

CIVL 2210. Light Construction. 4 hrs.
Students will be instructed in practices utilized in the erection of residential and industrial buildings, with technical information involving problems from ground to roof.

CIVL 2220. Construction Materials and Methods. 4 hrs.
Identification, properties and standard test methods for steel, concrete, timber, masonry products, bituminous products, soils and aggregate. Heavy construction methods are also discussed. PR: CIVL 2210, MATH 1101.

CIVL 2230. Construction Estimating. 3 hrs.
This course covers construction cost-estimating techniques for various types of construction projects. Included are certain related topics such as production, bidding and specifications as they affect the contractor during the cost estimation process. PR: CIVL 2220, INFO 1100.

CIVL 2240. Construction, Land and Route Surveying. 3 hrs.
This course will cover horizontal and vertical control, building location and layout, pipeline layout, construction staking procedures, earth quantity measurements, triangulation, horizontal and vertical curves, plan and profile, area and cross sections, volume calculations, mass diagrams, boundary control and deed descriptions. PR: CIVL 2200, INFO 1100.

CIVL 2275. Civil Engineering Graphics. 3 hrs.
This course will provide students with an introduction to computer-assisted civil engineering drafting and design. Includes coverage of graphics techniques, drawing organization, dimensioning, orthographic projection, and specific applications of civil engineering drafting and design. Typical applications include coordinate geometry, contours, topics in highway design, concrete, steel and structural wood drafting. PR: DRFT 2200.

CIVL 2280. Environmental Engineering Technology I. 3 hrs.
This introductory course will provide an overview of the environmental field, including laws and regulations, water quality, hydraulic and hydrologic fundamentals, water and wastewater treatment, groundwater contamination, and solid waste management. PR: CHEM 1101. CR: TECH 2290 or MATH 1185, or MATH 1190.

CIVL 2290. Introduction to Structures. 3 hrs.
This is an introductory course focusing on the analysis and design of structures. It will provide an elementary overview of the analysis, design, and detailing of both steel and wood structures, with primary emphasis on steel. Course coverage will include design of beams, columns and connections. PR: MECH 2200.

CIVL 3305. Hydraulics and Hydrology. 3 hrs.
Topics in hydraulics will include closed conduit flow, networks, reservoirs, hydraulic machinery, pumps in series and parallel and hydraulic structures. Topics in hydrology will include statistics and probability, hydrologic cycle and data, open channel flow, flood control and discharge, and culvert and detention pond design. PR: INFO 1100, TECH 2290 or MATH 1185 or MATH 1190, CIVL 2280.

CIVL 3340. Introduction to Soil Mechanics. 4 hrs.
This course covers soil origin and composition, index properties and classification, permeability, capillary, seepage, drainage, frost heave, combined stresses, total and effective stresses, compressibility and consolidation. PR: MECH 2200, CIVL 2280.

CIVL 4400. Highway Design and Transportation. 3 hrs.
This course addresses basic transportation theory and design, including parametric statistics, traffic flow, capacity, level of service, pavement design and geometric design. PR: TECH 2290 or MATH 1185 or 1190, or CIVL 3340.

CIVL 4410. Advanced Structural Analysis. 3 hrs.
This course provides an analysis of structures including cables, beams, columns, trusses and frames. Also included is buckling, shear, moment and deflection in statically determinate structures. PR: CIVL 2290, TECH 3300 or MATH 1186 or MATH 3315. Baccalaureate majors only.

CIVL 4420. Construction Planning and Administration. 3 hrs.
Introduction to construction management. Topics include construction planning and scheduling, economics, contracts, administration, health and safety, productivity and performance. PR: CIVL 2230.

CIVL 4440. Structural Design. 3 hrs.
A continuation of CIVL 2290, with more in-depth design of reinforced concrete and steel structures. PR: CIVL 2290.

CIVL 4450. Structures. 3 hrs.
Introduction to the structural design of typical building components using steel, timber and concrete. The course will include design of laterally supported and unsupported beams, one and two-way slabs, columns, beam-columns, tension members, connections and wall and column footings. PR: CIVL 2220, MECH 2200.

CIVL 4460. Environmental Engineering Technology II. 3 hrs.
This course will cover theories and practices in water and wastewater treatment systems, including physical, chemical and biological treatment processes. Other topics include surface water quality characteristics, modeling and permitting. PR: CIVL 2280 and TECH 3300 or MATH 1186 or MATH 3315. Baccalaureate majors only.

CIVL 4470. Advanced Soil Mechanics and Foundation Design. 3 hrs.
This course is a continuation of CIVL 3340 and includes shear strength, laboratory and field test methods and their use in design. It also provides an introduction to shallow and deep foundations, including bearing capacity and settlement analysis, the study of earth pressure for use in design of retaining walls, sheet piles, and excavating bracing, and an introduction to earth structure design and slope stability analysis. PR: CIVL 3340. Baccalaureate majors only.

COMPUTER SCIENCE

COMP 1100. Concepts of Computing. 3 hrs.
This course provides an overview of the uses and capabilities of computer hardware and software. Emphasis is on computer terminology and an understanding of similarities and capabilities of application software. Developing skill in using specific applications is not the primary emphasis of the course. The course includes:
1.) a discussion of the components of a current computer system and how they interact
2.) an introduction to a small variety of application software, with emphasis on
similarities of the applications
3.) data transfer between applications, copying files, downloading and uploading
4.) troubleshooting techniques for hardware and software problems
5.) a discussion of computer programming
Classes will meet in a computer lab several times during the course as software is introduced. Assignments will include projects requiring use of the applications and a project involving the writing of an elementary program.

COMP 1101. Applied Technical Programming. 3 hrs.
This course will provide an introduction to the BASIC programming language and familiarity with microcomputer hardware and operating system commands. Several short programming projects will be assigned. The emphasis of the projects will be technological applications. This course may not be substituted for either COMP 1100 or 1102. PR: MATH 1101.

COMP 1102. Principles of Programming I. 3 hrs.
A study of the foundations of software development. Students are introduced to computer organization, data representation, the software development cycle, and programming concepts including control structures, functions, elementary data structures and text file processing. Programming projects in the language C++ are assigned to provide students with experience in software development. PR: MATH ACT score of 21 or MATH SAT score of 500 or Compass score of 49 or MATH 1100.

COMP 1108. Principles of Programming II. 3 hrs.
This course is a continuation of COMP 1102 and covers storage classes, structures, pointers, dynamically allocated lists, non-text files, and concepts of OOP (Object Oriented Programming), including objects and classes, encapsulation, inheritance, and polymorphism. Projects in C++ are assigned to provide students with experience implementing larger multi-part applications using these concepts. PR: COMP 1102.

COMP 1199. Special Topics in Electronic Data Processing. 1-12 hrs.
Studies in special selected topics, to be determined by the instructor and approved by the department chair. Credits earned will be applicable as free electives in degree and certificate programs.

COMP 2200. Principles of Programming III. 3 hrs.
This course is a continuation of COMP 1102 and covers storage classes, structures, pointers, dynamically allocated lists, non-text files, and concepts of OOP (Object Oriented Programming) including objects and classes, encapsulation, inheritance, and polymorphism. Projects in the language C++ are assigned to provide students with experience implementing larger multi-part applications using the aforementioned concepts. PR: COMP 1108.

COMP 2201. Machine Organization. 3 hrs.
Offers the student a better understanding of how programs are executed by the hardware. Topics include assembly language instructions, data representation, subroutine calling conventions, BIOS and DOS service routines, interrupt handling, and communication between hardware devices. Programming projects are assigned to exemplify the topics covered in class. PR: COMP 1108.

COMP 2215. Software Design and Development with Ada. 3 hrs.
This course provides an introduction to software design concepts including modularity, abstraction, problem specification and design and verification of software. Projects are assigned to illustrate software development concepts as well as the special features of the Ada programming language, including generic packages and tasking. PR: COMP 1108.

COMP 2220. Fundamentals of Computer Security. 3 hrs.
Topics to be covered in this course include access control, physical security, hacking, malicious code, intrusion detection, vulnerability assessment, countermeasures, network architectures, firewalls, network security, cryptography, forensics, certification and accreditation and legal and ethical issues. The course consists of three hours of lecture per week. PR: COMP 1101 or 1102 or INFO 1100.

COMP 2230. Java and Internet Applications. 3 hrs.
An introduction to programming in a hardware-independent language. Students will develop applications which can be downloaded from the Internet without risk to the recipient's system. Topics include basic Java syntax, object-oriented programming from a lava perspective, graphical interface components, exception handling, multi-threading, files and streams, display of multimedia images and animation. Programming projects are assigned to illustrate these concepts. PR: MATH 2216 and COMP 2270.

COMP 2270. Data Structures, Algorithms and OOP I. 3 hrs.
This course reviews OOP (Object Oriented Programming) concepts, adding more depth, and begins a formal study of data structures including stacks, queues, and trees. Basic analysis of the algorithms pertaining to these structures is covered, along with Big-O notation. Programming projects are assigned which declare abstract list classes, from which descendant classes are created to manipulate stacks, queues and trees. This course meets three hours per week for lecture. PR: COMP 2200 and MATH 1170 and MATH 2216.

COMP 3300. Computer Graphics. 3 hrs.
This course provides an overview of interactive graphics programming. Topics include the design of a simple graphics package, interactive devices and techniques, geometrical transformations and viewing in three dimensions. Representation of three-dimensional shapes is also developed. PR: COMP 2270 and MATH 1190.

COMP 3305. Student Consulting. 1 hr.
The student consultant will provide program consulting for students enrolled in introductory computer classes. This service will be performed in the computer terminal room of the Computer Center Lab for three hours a week for the duration of the semester. The service will be restricted to assistance with terminal operation and programming problems that involve system software, language syntax, or interpretation of diagnostic messages.

COMP 3310. Artificial Intelligence. 3 hrs.
An introduction to AI techniques, using a symbolic or logic-based programming language. Topics covered include knowledge representation, heuristic search, natural language processing, game playing, theorem proving and expert systems. Programming projects are assigned to illustrate these concepts. This course meets three hours per week for lecture. PR: COMP 2270 and MATH 2200.

COMP 3340. Operating Systems. 3 hrs.
This is an introduction to historical and current operating systems' principles and operation. Topics include the function and operation of the major areas of the operating system such as user interfaces, process control, synchronization, primary and secondary memory management, I/O, controls, concurrent processes and security issues. PR: COMP 2270 and COMP 2201.

COMP 3380. Cryptography in Computer Security. 4 hrs.
This course provides an introduction to cryptography. Major topics to be covered include the history of cryptography and secret and public key encryption. A cryptography laboratory will be provided to demonstrate various applications of cryptography, such as digital certificates, digital signatures, IPSec, Kerberos, PGP, PKI, Rijndael, secure e-mail, SSL and TLS. The course consists of three hours of lecture and two hours of lab per week. PR: COMP 2220 and MATH 1170 and MATH 2216.

COMP 3390. Network Security Technology. 4 hrs.
This course combines classroom and laboratory work to explore network security attacks and solutions. Commercial-Off-The-Shelf (COTS) network devices such as servers, routers, bridges, switches, hubs, firewalls, scanners and intrusion detection systems will be configured to demonstrate network security solutions for selected real-world scenarios. The course consists of three hours of lecture and two hours of lab per week. PR: COMP 2240 and COMP 2220 and INFO 2250.

COMP 3395. Legal and Ethical Issues in Computer Security. 3 hrs.
Writing Intensive
Provides an introduction to various legal and ethical issues related to computer security. Topics to be covered include privacy rights, intellectual property rights, electronic transactions and liabilities, hacking, computer crime, encryption policies, offensive speech, anonymity, employee monitoring and e-mail policies, censorship, AI/expert systems, codes of ethics (ACM, IEEE, ISC(2) and NSPE) and political freedom. PR: COMP 2220.

COMP 4410. Database Management. 3 hrs.
Students will develop familiarity with database terminology and will study database design and implementation. The primary focus will be on the relational model, relational algebra and SQL. Issues of dependencies, normal forms, data integrity and query optimization will also be discussed. PR: COMP 2270.

COMP 4415. Vulnerability Assessment. 4 hrs.
This course provides theoretical and practical instruction for assessing computer vulnerabilities and countermeasures. Topics to be covered include firewalls, hacking, intrusion detection, incident response, penetration testing and security policies. The laboratory portion of the course will provide hands-on experiments connected with various vulnerability assessment and countermeasures topics. The course consists of three hours of lecture and two hours of lab per week. PR: COMP 3390.

COMP 4420. Selected Advanced Topics. 3 hrs.
This course will address current topics of interest in computer science, to be determined by the instructor and approved by the department chair. PR: COMP 3340.

COMP 4421. Computer Science Special Project. 3 hrs.
Each student enrolled in this course will develop an independent project under supervision of the instructor. The project will be a practical application of computer science. The student and instructor will agree on the nature of the project necessary to satisfy the course requirement. PR: instructor's consent.

COMP 4495. Computer Security Internship. 3 hrs.
This course allows students to obtain real-world computer security work experience through an internship with either a government agency or local high technology company. PR: COMP 3395 and COMP 3390.

CRIMINAL JUSTICE

CRJU 1100. S-C&TC Introduction to Criminal Justice. 3 hrs.
This course introduces the student to the three principal components of the criminal justice system: law enforcement, the judiciary and corrections. It will examine the history, structure, functions and issues of each component, and introduce the student to the measurement of crime, criminological theories, criminal law, justice perspectives and the juvenile justice system.

CRJU 1101. S-C&TC Police Operations. 3 hrs.
The student will be introduced to the day-to day duties of a police officer. Emphasis will be placed on community and human relations, patrol and traffic functions, order maintenance, report writing, investigations, communications, interviewing, search and seizure and arrest. Police stress and survival skills will also be discussed.

CRJU 1199. S-FSU Special Topics in Criminal Justice. 1-12 hrs.
Studies in special selected topics, to be determined by the instructor and approved by the School's Chair. Credits earned will be applicable as free electives in degree and certificate programs. PR: CRJU 1100.

CRJU 2202. S-FSU Principles of Criminal Law. 3 hrs.
Structure, definitions and interpretations of criminal statutes of particular interest. The course will cover the scope, purpose and definition of criminal law in general, including the study of crimes against individuals and property and other offenses.

CRJU 2203. S-C&TC Computer Crime: Legal Issues and Investigation Procedures. 3 hrs.
This course provides an overview of computer crime and procedures which forensic computing specialists, law enforcement investigators and prosecutors must invoke to successfully prosecute computer criminals.

CRJU 2204. S-C&TC Police Defense Tactics. 1 hr.
The student will be exposed to methods of physical protection, including the techniques of baton use, disarmament, and defense techniques.

CRJU 2205. S-C&TC Natural Resources Laws. 3 hrs.
This course involves a study of the state Natural Resources Laws dealing with the objectives of the Department of Natural Resources, the meaning of these various laws and regulations and the authority granted officers in their enforcement. PR: CRJU 1100.

CRJU 2206. S-C&TC Introduction to Corrections. 3 hrs.
A survey of the current correctional process in America, including the origin and legal procedures of the present system and its effects on the individuals as well as on our society. Special emphasis is given to current theories of rehabilitation in the institution and in probation and parole. Students will also be introduced to the administration of the adult and juvenile institutions and the alternatives to and future of the present system.

CRJU 2209. S-C&TC Firearms. 3 hrs.
This course addresses safety precautions, legal provisions, moral aspects, principles of decision shooting and restrictions in the use of firearms. Nomenclature and the firing process of the sidearm and shotgun will be demonstrated. PR: CRJU 1100.

CRJU 2212. S-FSU Abnormal Behavior and Crisis Intervention. 3 hrs.
A study of the recognition and handling of abnormal persons with emphasis on those mental conditions most often encountered by the criminal justice practitioner. Methods of crisis intervention, basic conflict management and referral and diversion will also be discussed. PR: CRJU 1100.

CRJU 2215. S-C&TC Introduction to Private Security. 3 hrs.
This course will analyze the evolution, philosophy, responsibilities and functions of the private security industry. It will include risk management, occupational safety and health, public relations and loss prevention measures. The student will examine similarities and differences between private security and public policing. PR: CRJU 1100.

CRJU 2218. S-C&TC Police Administration. 3 hrs.
A survey of public police administration, this course covers political influences and controls, principles of leadership, interpersonal and organizational communication, human resource management, labor relations, information systems and applications, planning and decision making, financial management, measurement of productivity and organizational change. PR: CRJU 1101.

CRJU 2220. S-FSU Juvenile Justice Process. 3 hrs.
This course addresses definitions of delinquent behavior, contributing social problems, adolescence as a subculture, the philosophy and practice of adjudication process for juveniles and treatment procedures. PR: CRJU 1100.

CRJU 2226 Crime Scene Investigation. 3 hrs.
This course will examine all aspects of performing a thorough and methodical crime scene investigation. This course will address a variety of crime scene ranging from crimes of violence to property crime scenes. Various types of physical evidence such as latent prints, trace evidence, biological fluids will be examined. The methods and procedures utilized for the collection of evidence will be demonstrated and examined. PR: CRJU 1100

CRJU 2236. S-C&TC Criminal Investigation. 3 hrs.
This course will survey the fundamental techniques of criminal investigation. Students will be exposed to the history of criminal investigation and criminalistics, interviewing and interrogation, physical evidence, crime scene procedures, crime analysis, investigation techniques, report writing, case preparation and courtroom testimony. PR: CRJU 1100.

CRJU 2240. S-FSU Adjudication Process. 3 hrs.
Topics include the role and structure of prosecution, public defense, and the courts; basic elements of the substantive criminal law and procedural law and its relation to constitutional guarantees. PR: CRJU 1100.

CRJU 2246. S-FSU Criminal Evidence. 3 hrs.
This course covers constitutional and procedural considerations affecting arrest, search and seizure, post-conviction treatment; the origin, development, philosophy and constitutional basis of evidence; kinds and degrees of evidence and rules governing admissibility; and judicial decisions interpreting individual rights and case studies. The primary focus is on the case study approach. PR: CRJU 1100.

CRJU 2255. S-FSU Law of Corrections. 3 hrs.
This course is designed to introduce the student to the concepts of law related to the rights of the accused and convicted in the corrections environment, both pre-conviction and post-conviction. Topics include the constitutional rights of pretrial detainees and prisoners, remedies available for the violation of such rights, potential liability (civil and criminal) of corrections officials for violation of such rights and some practical applications of such principles. The course will utilize the case study method in combination with lectures and readings to achieve the stated goals. PR: CRJU 2206.

CRJU 2256. S-C&TC Homicide Investigation. 3 hrs.
This course will examine all aspects of performing a thorough and methodical death investigation. The course will address the initial arrival, securing the scene, forensic evidence, follow-up, causes and motives. Suicides, accidental deaths, natural causes, homicide, serial and mass murder will also be examined. Students will learn about the importance of latent prints, blood spatters, rigor mortis, livor mortis, entomology, bite marks, interrogations and current software to aid in an investigation.
PR: CRJU 2236.

CRJU 2257 S-C&TC Risk Management. 3 hrs.
This course is designed to assist the student in obtaining an advanced understanding of risk management. The process of risk management is utilized in determining your assets, vulnerabilities, and threats and then protecting them. Required core class for the Homeland Security Degree Program. PR: Must be admitted to the A.A.S. Homeland Security Degree Program . PR: CRJU 1100.

CRJU 2260 S-C&TC Terrorism, Counter Terrorism, and Terrorism Response 3 hrs.
This course is designed to provide the beginning student with a basic understanding of the history of terrorism, its impact on society, the domestic and foreign evolution of terrorism, various terrorist groups around the world, and the appeal of terrorism to fringe and un-empowered groups. The course will also examine the law enforcement responses to terrorism. Required for the Criminal Justice Track of the HS AAS Degree. PR: Must be admitted to the A.A.S. Homeland Security Degree Program. PR: CRJU 1100, 1101.

CRJU 2266 S-C&TC Sex Crimes. 3 hrs.
This course will examine all aspects of performing a thorough sex crime investigation. The course will also examine sexual behavior, theories of sexual deviance, nuisance sex behavior, incest, pedophilia and dangerous sex practices. The student will be further exposed to investigative issue such as: bite marks, latent prints, interrogation, and profiling. PR: CRJU 1100, CRJU 2236

CRJU 3300. Criminalistics. 3 hrs.
Students will study the scientific approach to collecting and analyzing physical evidence. The course will expose the student to the procedures of searching and processing crime scenes for fingerprints, body fluids, glass, fibers, tool marks, ballistics, footprints and tire impressions. The student will be instructed in the proper methods of preserving and shipping criminal evidence for analysis, the various laboratory techniques used in analyzing criminal evidence and how expert witness testimony is prepared and presented in court. PR: CRJU 2236.

CRJU 3301. Internet Vulnerabilities and Criminal Activity. 3 hrs.
This course is designed to provide the student with relevant data concerning vulnerabilities and criminal activity on the Internet. The course will define and describe potential impacts of cyber-crime.

CRJU 3304. The Female Offender. 3 hrs.
Designed to introduce the student to the largest-growing inmate population in the United States. It will introduce the students to the history of women in prison, the profiles of women entering our penal system, and how corrections professionals have responded to the unique needs of women in this male-dominant system. This class also examines the effects on our society of incarcerating females, many of whom are mothers. The course uses a combination of lectures, films, outside readings, and actual visits to facilities housing female inmates. PR: CRJU 2206.

CRJU 3305. Changing Roles of Women in Criminal Justice. 3 hrs.
The course will examine issues concerning women within the contemporary criminal justice system. Students will explore theories and current research of the historical role of women as practitioners, offenders and victims.

CRJU 3310. Comparative Criminal Justice. 3 hrs.
The objective of this course is to provide materials that will allow students to understand and respect the institutions and procedures of other countries, and to familiarize them with international efforts to control and investigate crime. The study of other countries' criminal justice systems will also provide students with a foundation of knowledge that will lead to an understanding of foreign visitors' and immigrants' world view based on their experiences of criminal justice systems and procedures prior to their arrival in the United States. PR: CRJU 1100.

CRJU 3316. Community Relations & Ethics. 3 hrs.
An analysis of the relationship between criminal justice agencies and the public, and of professional ethics in the performance of public duties. This course will address problems in citizen relations; treatment of victims, witnesses, and jurors; citizen involvement in the criminal justice process and resources related to community programming. The student will review corruption, illegal activities and issues of ethics among criminal justice employees. PR: CRJU 1100, 2206.

CRJU 3320. Criminology. 3 hrs.
The study of deviant behavior as it relates to the definition of crime. Topics include crime statistics theories of crime causation and crime typologies. PR: CRJU 1100.

CRJU 3325. Analysis of Security Operations. 3 hrs.
This course is designed to foster an advanced understanding of private and public security. A historical and philosophical perspective will help students better understand risk analysis, physical and procedural controls, intelligence gathering and the principles on which private security is founded,. Other current security issues will be addressed. PR: CRJU 2215.

CRJU 3330. Group Disturbances. 3 hrs.
During class discussions, students will explore types of disturbances which occur in the correctional settings and become familiar with strategic planning responses. The course will utilize video graphics, group discussions, lectures and site visits to achieve the stated goals. PR: CRJU 2206.

CRJU 3335. Analysis of Police Operations. 3 hrs.
This is a seminar in major police issues. The topics will vary according to the interests of the instructor and students but will focus on current issues in police operations. Topics may include officer selection and promotion processes, academy and field training, corruption and brutality, minorities and women in police work, crime prevention, community relations and community policing. The emphasis will be on determining practical and effective policies and procedures. PR: CRJU 1101.

CRJU 3340. Laws of Arrest, Search & Seizure. 3 hrs.
This course will deal with constitutional law relating to the police function. Focus will be on the Fourth, Fifth, Sixth and Fourteenth Amendments, which include reasonable suspicion and probable cause, warrant requirements and exceptions, field stops and interviews, interrogations, right to counsel, pretrial identifications, the exclusionary rule and due process. There will be detailed discussion on the reasons for constitutional protections to engender an understanding of and respect for the rights of all people involved in the criminal justice process. PR: CRJU 1100, 1101.

CRJU 3350. Group Techniques. 3 hrs.
This course is designed to instruct the student in the principles of group interactions. This information will directly apply to groups within a prison population, with specific information regarding a variety of criminal personalities. PR: CRJU 2212.

CRJU 3355. Analysis of Correctional Operations. 3 hrs.
Topics include problems of management in the correctional process; programming, security, information systems, reports, case management and evaluation progress; custody and discipline as they relate to rehabilitative efforts; community adjustment facilities; and problems of probation and parole. PR: CRJU 2206.

CRJU 3360. Community-Based Corrections. 3 hrs.
This course is designed to instruct the student in the study of diversion, pretrial release programs, probation, restitution, community service programs, temporary release programs, halfway houses and parole. Emphasis will be placed upon the special problems and needs of females, juveniles and drug-and-alcohol-abusing offenders. The preparation of the pre-sentence investigation report will also be covered. PR: CRJU 2206.

CRJU 3365. Licit and Illicit Drugs. 3 hrs.
This course is designed to instruct the student in the understanding of street drugs and their effects on the individual. The course will also examine specialized techniques in drug investigation and the legislation that applies directly to the defenses. PR: CRJU 1100.

CRJU 3370. Economic Crime. 3 hrs.
The course content will provide students with an overview of economic/white-collar crime in America. Students will examine definitional problems, difficulties in establishing the scope and extent of economic crime, theories of causation, law enforcement effectiveness, efforts of technology, and a number of related topics. PR: CRJU 1100.

CRJU 3399. Special Issues in Criminal Justice. 3-9 hrs.
Forum for special course offerings, focusing upon special issues in criminal justice, by visiting instructors or regular faculty.

CRJU 4401. Independent Study. 1-6 hrs.
Students involved in this course will conduct surveys and applied research projects as approved and supervised by a Criminal Justice faculty member. PR: Junior or Senior status.

CRJU 4405. Terrorism. 3 hrs.
A course designed to promote understanding of the problem of terrorism and political violence. The course will define terrorism; examine its origins, characteristics, nature and trends; analyze in detail various terrorist organizations and address selected problems in the response to terrorism. (Credit in Criminal Justice or Political Science).

CRJU 4410. Research in Criminal Justice. 3 hrs.
Writing Intensive
Students will explore the interaction of theory, research, and practice in the criminal justice process; the purposes and limits of research; introduction to research design, data collection, analytic techniques, data processing resources and preparation of research reports. PR: CRJU 1100, 2206.

CRJU 4411. Field Practicum. 3-12 hrs.
A supervised professional study conducted in the criminal justice field setting. PR: Junior or Senior status and a 2.5 GPA. PR: CRJU 1100, 2206.

CRJU 4415. Community Policing. 3 hrs.
This course provides a detailed analysis of community policing, which is the dominant philosophy for providing police services in the twenty-first century. Topics include the history of community policing,

definitions of "community," current strategies for the implementation of this philosophy and the impact community policing will have on crime, disorder and fear. Also included in the course will be a thorough description of the new role of a police officer as a Community Policing Officer and the requirements for success. PR: CRJU 1101, Junior or Senior status.

CRJU 4425. Evaluation of the Criminal Justice System. 3 hrs.
Writing Intensive

This is the capstone seminar in criminal justice, with a focus on policy analysis. Students in this course will examine controversial criminal justice issues. Topics of study will vary according to the interests of the instructor and students, but may include capital punishment, gun control, drug policy, crime myths, racism and discrimination in the justice process, white collar crime and corruption. Students will be required to write a major research paper. PR: CRJU 1100, 2206. Junior or Senior status.

CRJU 4495. Seminars in Criminal Justice Management. 1-3 hrs.

Workshops designed for personnel staffing management positions in the criminal justice system; focus upon solutions to particular administrative problems. PR: Junior or Senior status.

DANCE

DANC 1100. S-C&TC Introduction to Social Ballroom Dancing. 2 hrs.

This course will enable the student to participate in social occasions requiring ballroom dancing skills, such as weddings and formal social and business parties, as well as informal occasions requiring the display of social graces. The course includes learning the basic steps of both the rhythm dances: salsa, rumba, cha-cha, swing and the smooth dances: waltz, foxtrot, and tango. Students with previous dance experience may receive credit through examination.

DANC 1107 Introduction to Dance. 2 hrs.

This course will be an introduction to basic movement techniques and skills in ballet and various modern and jazz dance styles. Introduction to the fundamentals of improvisation and composition will be covered. Utilizing rhythm and movement as dimensional elements of this space-time art. Students with previous dance experience may receive credit through examination.

DANC 1110 Ballroom Dancing Culture and Behavior. 1 hr.

This class will cover the introduction to the tradition, history, and legacy of ballroom dancing. Partnership issues, problems, and expectations will be discussed, as well as etiquette, manners, and social graces, as expected of ballroom dancers.

DANC 1120 Ballroom Dancing Stage Craft. 1 hr.

This course covers acting principles for ballroom dancing. Facial expressions and body language of most dances will be included. In addition, make-up and hair dress for major groups of dances will be covered.

DANC 1130 Ballroom Dancing Rhythm and Repertoire. 1hr.

This course is rhythmic patterns of the twenty ballroom dances. Traditional and modern repertoire in social and competitive dances will be covered.

DANC 1140 Ballroom Dancing Instruction Practicum. 1 to 3 hrs.

This course will enable the student to learn and practice ballroom dancing teaching skills at the college, schools and other venues such as youth and community groups. Must be taken during three separate semesters at two or three different venues. PR: DANC 1100

DANC 1150 Ballroom Dancesport Bronze Level. 2 hours

This course will enable the student to perform at the bronze level of the American rhythm and smooth and International Latin and standard syllabi. PR: DANC 1100

DANC 1199 Special Topics in Ballroom Dance. 1 to 4 hrs.

Students will be given an opportunity to explore various areas of ballroom dancing such as further competitive experience, costume management, entrepreneur opportunities, and other areas of study as determined between the student and the professor. PR: DANC 1140.

DANC 2299 Special Topics in Ballroom Dance. 1 to 4 hrs.

Students will be given an opportunity to explore various areas of ballroom dancing such as further competitive experience, costume management, entrepreneur opportunities, and other areas of study as determined between the student and the professor. PR: DANC 1140.

New Course Prefix and Descriptions (These courses are currently taught, or have been taught under PE Special Topics 199, 299, 399 or 499.

DANC 2200 Ballroom Dancesport Silver Level. 2 hrs.

This course will enable the student to perform at the silver level of the American rhythm and smooth and International Latin and standard syllabi. PR: DANC 1150

DANC 2230 Ballroom Dancesport Competition Judging. 1 hr.

This course will enable the student to participate as judge and scrutineer at college competitions and organizer of competition judging at other venues. PR: DANC 2270

DANC 2250 Ballroom Dancesport Gold Level. 2 hrs.

This course will enable the student to perform at the gold level of the American rhythm and smooth and International Latin and standard syllabi. PR: DANC 2200

DANC 2270 Ballroom Dancing Competitive Experience. 1 hr.

Students will participate at dancesport competitions as member of the Fairmont State Dancing Falcons for at least three semesters. In their last semester students are expected to perform some dance at the gold level. Must be repeated for three credit hour

DRAFTING

DRFT 1100. S-C&TC Engineering Graphics. 3 hrs.

This introductory course covers basic drawing processes and techniques, including freehand lettering, geometric construction, sketching, multi-view and pictorial drawing, dimensioning and sheet layout. Tools, drawing surfaces, computer graphics, and projection theory will be stressed throughout the course.

DRFT 2200 S-C&TC Fundamentals of CAD. 3 hrs.

This is an introductory Computer Aided Drafting (CAD) course. Software to be covered will be Windows and the use of AutoCAD. The student will learn on a PC workstation and become familiar with plotters and printers.

DRFT 2205. Introduction to Solid Modeling. 3 hrs.

An introduction to conveying information as to the shape, size, and formation of a three-dimensional object. Topics include technical sketches, drawings and illustrations for parts catalogues. Content areas include isometrics, perspectives, three-dimensional wire frames and solid models. Three-dimensional rendering will also be explored. PR: DRFT 2200.

DRFT 2215. Architectural Drafting. 4 hrs.

A comprehensive study of the planning, design and drawing of a single-family residence. Primary considerations include the site, styling, codes, zones and basic construction techniques. Modern house planning results in a complete set of plans and specifications. PR: DRFT 2200.

DRFT 2225 Descriptive Geometry. 3 hrs.

A study of the science of graphic representation and solution of space problems involving points, lines, intersections, parallelism, perpendicularity, revolution, vectors, developments, shades and shadows, conics, and spherical triangles.

DRFT 2235. S-C&TC Technical Drafting. 3 hrs.
This course covers advanced drafting and design techniques by using a computer graphics workstation. The course content will include industrial detail drawing, electrical/electronics drawing, topographic mapping, pipeline drawing and production/working drawings. PR: DRFT 2200.

DRFT 2245 Architectural Design. 3 hrs.
As approach to the development of residential design problems. Sketching, interior perspective and rendered perspective will be covered to prepare interior design majors. Content covers: architectural, pictorial and presentation drawings. PR: DRFT 2200.

DRFT 2255. Tool Design. 4 hrs.
This course covers the design of tooling, including jigs and fixtures for machine operations such as drilling, reaming, tapping, milling and turning. Study will include modern tooling techniques, the use of computer graphics, tooling economics and development of jigs and fixtures that meet ANSI standards. PR: DRFT 2200.

EARLY CHILDHOOD

EC 1105 Development of Young Children. 3 hrs.
The student will study the physical, social, emotional, and cognitive development of young children with the focus on the preschool period from ages three through five. The course emphasis will be on applying the theories and research of child development to practices and procedures used when working with young children in an early childhood program.

EC 1106 Health and Safety in Early Childhood Programs. 2 hrs.
This course provides an introduction to health and safety requirements and responsibilities for individuals working in early childhood programs. Health, nutrition, and safety policies, procedures, and practices are studied. Students will meet state health and safety licensing requirements for child care employees.

EC 1107 Early Childhood Curriculum. 3 hrs.
The student studies how to plan, prepare and implement developmentally appropriate curriculum for early childhood programs. Opportunities for hands-on learning experiences are provided. Practicum experience is required.

EC 1130 Foundations of Early Childhood. 3 hrs.
Students become familiar with various types of early childhood programs and the career opportunities they provide. The history of early childhood is introduced as well as current trends and quality program criteria. Concepts for providing developmentally appropriate practices are introduced.

EC 2206 The Child in the Family. 3 hrs.
This course examines relationships between the young child and other members of the family unit and the relationship between the family and the early childhood program. The focus is on the child during infancy, toddler and preschool years. Studies include the diversity of family lifestyles and cultures.

EC 2230 Classroom Strategies. 3 hrs.
Students study theories of early childhood education with emphasis on classroom management, teaching methods, assessment and behavior guidance. Student's demonstrate their knowledge and understanding of theories and best practices by preparing appropriate thematic units and lesson plans for preschool children.

EC 2231 Administration of Programs. 3 hrs.
This course allows students to study early childhood programs from the perspective of the person serving in the role of leader and administrator. Studies include the planning and development of a program or center, budgeting issues, environmental planning and preparation, state licensing regulations, health and safety guidelines, staffing and personnel issues and parent-school relationships.

EC 2232 Early Childhood Practicum I. 3 hrs.
The student will gain practical experience interacting with young children as a practicum student in a community early childhood program and in the campus Laboratory Preschool. PR: EC 1107, EC 1130.

EC 2240 S-C&TC Infant Toddler Development and Care. 3 hrs.
The physical, social, emotional, cognitive and language development of the child from conception to age three will be studied. The course will include appropriate procedures and practices to use when caring for infants and toddlers in a group setting as well as in a private home.

EC 2262 Early Childhood Practicum II. 4 hrs.
Students will utilize the knowledge and skills from all theory and practicum courses as they participate in an early childhood program. Lesson planning, preparation and presentation will be required as the student gains actual teaching experience.
PR: EC 1107, EC 2232.

EC 2283 Cognitive Development. 3 hrs.
Students study theory and research relevant to the cognitive development of children during early childhood. Emphasis is placed on applying theory and research to behavior guidance and curriculum planning.

ECONOMICS

ECON 1199. Special Topics in Economics. 1-12 hrs.
Studies in special selected topics, to be determined by the instructor and approved by the School Dean. Credits earned will be applicable as free electives in degree and certificate programs.

ECON 2200. S-FSU Economics. 3 hrs.
Economics 2200 is a Liberal Studies course for non-business majors, which provides the student with a broad background in the field. The student will be exposed to micro- and macroeconomic theory and international economics, and should develop adequate knowledge to understand the role of economic systems and the application of economic principles in modern society.

ECON 2201. S-FSU Economic Principles and Problems I. 3 hrs.
This course approaches the subject from the point of view of macroeconomics, studying the nature and method of economics and describing how the capitalist system functions. Further study is made of the business cycle, fiscal policy, monetary policy, gross national product, and similar concepts. Some time is devoted to the study of competing economic systems.

ECON 2202. S-FSU Economic Principles and Problems II. 3 hrs.
This course is devoted to microeconomics. It follows the analysis of the firm and the decisions made by the managers of the firm, and includes the analysis of demand and supply and price and output determination. It is also concerned with the important problems in the field of economics: monopoly, agriculture, international trade, labor, economic development and similar issues. PR: ECON 2201.

ECON 3301. Intermediate Economic Analysis: Microeconomics. 3 hrs.
Students examine consumer demand, the supply function, and market pricing with various degrees of competition, oriented to the viewpoint of the individual firm and the industry of which the firm is a part. PR: ECON 2202.

ECON 3302. Intermediate Economic Analysis: Macroeconomics. 3 hrs.
National income, as a measure of economic activity, is descriptively and theoretically analyzed in this course. Examination of theories of

consumption and investment spending (including monetary demand and supply) are integrated with current economic problems to explain the level of employment and prices. PR: ECON 2202.

ECON 3303. Money, Credit, and Banking. 3 hrs.
An intensive study of money and credit principles with an analysis of their effects upon prices. The course also addresses the history of banking and banking principles and practices. PR: ECON 2202.

ECON 3305. Economics of Labor. 3 hrs.
A review of labor history, with emphasis on the aims and methods of labor organizations, and theories of wages, and the current trends in labor-management relations. PR: ECON 2202.

ECON 3308. International Economics. 3 hrs.
This course examines topics relevant to international trade relations, such as the development of modern trade theory, international equilibrium, tariffs, non-tariff trade barriers, trade regulations and policies and regional trading arrangements. It also covers topics relevant to international monetary relations, such as the balance of payments, foreign exchange rate determination and international banking. PR: ECON 2202.

ECON 4401. Managerial Economics. 3 hrs.
This course applies economic theories and tools of analysis to decision-making issues within the firm or organization. The topics studied include decision-making and risk, estimation of product demand, analysis of production costs and price determination. PR: ECON 2202.

ECON 4406. Guided Economic Study 1-3 hours
Intensive reading, research, and study in current literature and documents in regard to a selected economic problem or group of problems. The field of study will be one in which the student has a special interest. All work will be done individually and the class will be conducted by conferences with each student. PR: 17 hours of Economics, Business, and/or Social Science courses.

EDUCATION

EDUC 1105. S-C&TC Basic Skills for Instructional Support. 3 hrs.
This course will cover learning strategies and study skills for the paraprofessional, including strategies for remembering information, reading and taking notes, interpreting graphic aids, improving time management, preparing for and taking tests and finding and using information. In addition, math strategies and learning problems in mathematics, plus reading skills, phonics, sight words, and reading comprehension will be covered.

EDUC 1199. S-FSU Special Topics in Education. 1-12 hrs.
The topic to be studied will be determined by the instructor and approved by the Dean of Teacher Education. Credits earned will be applicable as free electives in degree and certificate programs.

EDUC 2200. S-FSU Introduction to Education. 3 hrs.
This course provides the teacher candidate with an overview of the profession. Its primary purpose is to offer information necessary for an informed career decision and a professional commitment to teaching. It also includes an analysis of the historical, philosophical and sociological basis for programs, instructional strategies and teaching behaviors in American education. It is recommended that students take this course no earlier than the second semester of their freshman year.

EDUC 2201. S-FSU Instructional Technology. 3 hrs.
Designed to introduce teacher candidates (pre K-adult) to computer technology and its applications to the classroom and curriculum. The major focus of the course will be interactive technology via the computer, although other forms of technology will be explored. Special emphasis will be placed on customizing instruction to meet learning styles of a diverse student population and evaluation of current software applications. Admission to Teacher Education.

EDUC 2202. S-FSU Human Growth and Development. 3 hrs.
This course is an analysis of human development from birth through adolescence. Students will examine the influence of heredity and environment on the development of personality and behavior and their implications for educators. Admission to Teacher Education.

EDUC 2202L. Human Growth and Development (Clinical I). 1 hr.
This is a one-credit-hour lab that must be completed as a clinical experience in the public school setting, or a comparable field-based setting. The clinical experience will allow the teacher candidate the opportunity to apply and reflect on his/her content, professional and pedagogical knowledge, skills, and dispositions in a variety of settings with students and adults. In addition, the teacher candidate will be provided with experiences that allow for immersion in the learning community so that s/he is able to demonstrate proficiencies in the professional role for which s/he is preparing. The teacher candidate may observe, assist, tutor, instruct, or conduct applied research in the clinical experience setting. PR/CR: EDUC 2202 and admission to Teacher Education.

EDUC 2206. S-C&TC Instructional Support Strategies. 3 hrs.
This course will cover legislation affecting special education laws and the learning experience, the difference between mainstreaming and inclusion, the IEP and the self-contained classroom. Students will also learn about implementation of effective classroom management. Behavioral support in a positive learning environment and the role of the family, for encouraging and including parental input in an educational plan, will be included.

EDUC 2207. S-C&TC Behavior Support Strategies. 3 hrs.
This course presents basic principles and practices in the use of applied behavior management with both normal and exceptional learners. Students will gain firsthand experience in using behavior analysis and other behavioral support strategies in field settings.

EDUC 2220. S-FSU Introduction to Special Education. 3 hrs.
This course is a guided survey of the areas of exceptionality in the field of Special Education (emotionally/behaviorally disturbed, physically handicapped, speech and language, visually impaired, hearing impaired, mentally impaired, gifted, and learning disabled), and the historical, philosophical, political and sociological foundations related to exceptional children. The laboratory component of the course is designed to provide experience in the areas of exceptionality through observation and limited participation in these areas.

EDUC 2225. Computer Education. 3 hrs.
In this course, students study the history of computers in society and education. The focus of the course is on understanding the theories supporting computer use in schools, the ways computers are used, and the effects of computer-based instruction on student learning. Admission to Teacher Education.

EDUC 2226. Technology in Instruction. 3 hrs.
This course prepares the pre-service teacher (K-6) to fully plan, implement and evaluate statewide technology plans. Content includes technology standards, resources, and planning; online education and curriculum integration and design. Admission to Teacher Education.

EDUC 3307. Instructional Technology II. 3 hrs.
This course prepares the pre-service teacher to utilize school-wide classroom technology applications. Hardware, software, advanced applications, computer lab operations and school-wide assistance are the major areas of intent in the course. Admission to Teacher Education.

EDUC 3317. Introduction to Specific Learning Disabilities. 3 hrs.
An overview of the field of specific learning disabilities is offered in this course. It analyzes the definition, characteristics of, and causes of specific learning disabilities. Emphasis is placed on learning development, specific legislation, programs, contemporary issues, and relevant agencies. Inclusive settings and professional collaboration will be discussed along with programming options, treatment methods, and instructional needs. Admission to Teacher Education.

EDUC 3318. Introduction to Emotional/Behavior Disorders. 3 hrs.

This course surveys the theories, legal foundations, etiologies, and characteristics of emotional/behavior problems of children and youth with exceptionalities. The primary focus is on individuals with behavior disorders of both the internalizing and externalizing type. Lesser attention is given to behaviors stemming from autism spectrum disorders, traumatic brain injury, and mental impairments. Inclusive settings and professional collaboration will be discussed along with programming options, treatment methods, and instructional needs. Admission to Teacher Education.

EDUC 3320. Introduction to Mental Impairments. 3 hrs.

This course provides an overview of the definition, characteristics of, and causes of mental impairments. Content includes historical perspectives on mental impairment, legal issues (eligibility, IEP, program options, and related services), development, curriculum and instructional needs, inclusive settings, and professional collaboration. Students will gain experience in setting appropriate goals and objectives for curriculum and instruction, and to a lesser degree, selecting materials, methods, and strategies for individual learners with mental impairments. Admission to Teacher Education.

EDUC 3321. Introduction to Assessment Techniques in Special Education. 3 hrs.

This course focuses an in-depth investigation of the diagnostic and assessment procedures and instruments utilized in the identification and evaluation of exceptionalities. The laboratory components require involvement in diagnosis and assessment of exceptional children. PR: EDUC 2220, 3317, 3318, 3320. Admission to Teacher Education.

EDUC 3326. Curriculum and Instruction: Strategies for Working with Students with SLD, E/BD, and MI. 3 hrs.

This course utilizes a research based approach to teaching students with specific learning disabilities, emotional/behavior disorders, and mental impairments in grades k-12. The course prepares the pre-service teacher to set appropriate goals and objectives for curriculum and instruction, select materials, methods, and strategies for individual learners and communicate this knowledge effectively to the student, the professional community (especially regular educators), and parents. The skills necessary for inclusive/collaborative teaching will be discussed. PR: EDUC 2220, 3317, 3318, 3320. Admission to Teacher Education. This course may be taken concurrently with EDUC 3321. Clinical Experience I: There is a 90 hr. clinical experience associated with this course.

EDUC 3330. The Reading Process. 3 hrs.

Writing Intensive

This course examines the components of reading, with emphasis placed upon word attack skills, reading comprehension and factors which affect reading progress. Admission to Teacher Education.

EDUC 3331. Reading in the Content Areas. 3 hrs.

Writing Intensive

This is a reading methods course designed to provide content teachers with background information and instructional competencies necessary for teaching the reading and study skills essential to learning other subjects. This course also provides a rationale and practical applications for integrating instruction in the reading process across all content areas. Admission to Teacher Education.

EDUC 3350. Integrated Methods in the Elementary Classroom. 3 hrs.

This is a methods course in which prospective K-6 teachers translate content specific skills to the developmental levels, intellectual, emotional and social needs and learning styles of students. Activities focus on the acquisition of knowledge, skills, and dispositions through practice in selecting appropriate content, goals, and strategies for K-6 students and designing effective teaching and evaluation procedures. Admission to Teacher Education.

EDUC 3351. Human Exceptionalities & Cultural Diversity. 3 hrs.

Writing Intensive

This course is designed to prepare teacher candidates with a foundation for educating students with special needs in inclusive public school settings K-12. It provides information about the spectrum of students: those considered low and high incidence disabilities, those from culturally diverse backgrounds, and those at risk for school failure. It presents strategies for differentiating instruction, instructional adaptations and approaches to responding to students' behavior, and building social relationships. Approaches to analyzing, assessing and evaluating student needs and learning are addressed. Admission to Teacher Education.

EDUC 3351L. Human Exceptionalities & Cultural Diversity (Clinical II). 1 hr.

This is a one-credit-hour lab that must be completed as a clinical experience in the public school setting, or comparable field-based setting. The clinical experience will allow the teacher candidate the opportunity to apply and reflect on his/her content, professional and pedagogical knowledge, skills, and dispositions in a variety of settings with students and adults. In addition, the teacher candidate will be provided with experiences that allow for immersion in the learning community so that s/he is able to demonstrate proficiencies in the professional role for which s/he is preparing. The teacher candidate may observe, assist, tutor, instruct or conduct applied research in the clinical experience setting. Admission to Teacher Education.

EDUC 3352. Educational Psychology. 3 hrs. Writing Intensive

This is a representative survey of psychology, emphasizing the application of prominent theories as they relate to the teaching and learning process. Teacher candidates will learn to apply their knowledge base with regard to many significant aspects of classroom decision-making, including planning, instructional strategies, student motivation, appropriate assessment and the management of an effective learning environment. Admission to Teacher Education.

EDUC 3352L. Educational Psychology(Clinical II). 1 hr.

This is a one-credit-hour lab that must be completed as a clinical experience in the public school setting, or comparable field-based setting. The clinical experience will allow the teacher candidate the opportunity to apply and reflect on his/her content, professional and pedagogical knowledge, skills, and dispositions in a variety of settings with students and adults. In addition, the teacher candidate will be provided with experiences that allow for immersion in the learning community so that s/he is able to demonstrate proficiencies in the professional role for which s/he is preparing. The teacher candidate may observe, assist, tutor, instruct or conduct applied research in the clinical experience setting. Admission to Teacher Education.

EDUC 3390. Elementary Classroom Organization and Practices 4 hours

This is the culminating methods course in which teacher candidates make the transition from the college to the public school setting with student interactions between the two in the following general areas:
1.) organization, schedules, policy and procedures in a public school setting
2.) planning for instruction within the public school curriculum guidelines
3.) effective management practices within public school policy guidelines
4.) developing, selecting, and administering evaluation/assessment instruments
5.) implementing best practice instructional strategies
6.) communicating effectively
7.) exhibiting professionalism and reflecting upon the teaching/learning process.
Admission to Teacher Education.

EDUC 3395. Secondary Classroom Organization and Practices. 4 hrs.

This is the culminating methods course in which teacher candidates make the transition from the college to the public school setting with student interactions between the two in the following general areas:

1.) organization, schedules, policy, and procedures in a public school setting
2.) planning for instruction within the public school curriculum guideline
3.) effective management practices within public school policy guidelines
4.) developing, selecting, and administering evaluation /assessment instruments
5.) implementing best practice instructional strategies
6.) communicating effectively
7.) exhibiting professionalism and reflecting upon the teaching/learning process.

Admission to Teacher Education.

EDUC 4446. Applied Practicum: Mentally Impaired and/or Learning Disabled. 3 hrs.
A field-based practicum intended to actively involve the teacher candidate in the application of previously learned concepts about the mentally impaired and/or the learning-disabled student. Emphasis is placed on assessment, curriculum, instructional techniques, methodology, modifications and collaboration with regular education. This course may be taken concurrently with EDUC 3321, provided that all other prerequisites are met. Admission to Teacher Education.

EDUC 4470. Student Teaching in Mental Impairment. 4 hrs.
A full-time student teaching experience (minimum four weeks) in an appropriate public school setting is required for successful completion of this course. The experience emphasizes application of essential concepts and skills in designing instructional approaches for the mentally retarded. Students will observe, assist and teach under the supervision of a cooperating public school teacher and college personnel. This experience is evaluated on a pass, incomplete or fail basis and does not affect the grade point average. Admission to Teacher Education.

EDUC 4471. Student Teaching in SLD. 4 hrs.
This course comprises a full-time student teaching experience (minimum four weeks) in a fully certified SLD program with a licensed teacher in Specific Learning Disabilities. The experience is designed to provide the teacher candidate with the opportunity to blend theory with practice through the application of those skills essential in designing and implementing instructional approaches for Specific Learning Disabled Students. Admission to Teacher Education.

EDUC 4472. Student Teaching: The Multi-Categorical Setting. 4 hrs.
A full-time student teaching experience (minimum six weeks) in an appropriate public school setting is required for successful completion of this course. The experience emphasizes application of essential concepts and skills in designing instructional approaches for students with behavior disorders. Students will observe, assist and teach under the supervision of a cooperating public school teacher and college personnel. This experience is evaluated on a pass, incomplete or fail basis and does not affect the grade point average. Admission to Teacher Education.

EDUC 4490. Elementary K-6 Student Teaching/Clinical III. 8 hrs.
Full-time involvement in the teaching-learning process in a public elementary school (K-4/K-6) setting is required for successful completion of this course. Student teachers will observe, assist and teach under the supervision of a cooperating public school teacher and college personnel. This experience is evaluated on a pass, incomplete or fail basis and does not affect the grade point average. Admission to Teacher Education.

EDUC 4495. Secondary/Pre-K-Adult Student Teaching/Clinical III. 8 hrs.
Full-time involvement in the teaching-learning process in a public elementary, middle or secondary school setting is required for successful completion of this course. Student teachers will observe, assist and teach under the supervision of a cooperating public school teacher and college personnel. This experience is evaluated on a pass, incomplete, or fail basis and does not affect the grade point average. Admission to Teacher Education.

ELECTRONICS ENGINEERING TECHNOLOGY

ELEC 1100. Circuit Analysis I. 3 hrs.
Introduction to the concepts of voltage, current, resistance, capacitance and inductance. Also covered are Kirchoff's Laws, with applications in basic DC-AC, series-parallel circuits. Basic electromechanical devices and transformers are studied. CR: MATH 1101 or 1115.

ELEC 2200. Shop Practices. 3 hrs.
The student will build a breadboard to be used in subsequent courses. Skills covered in this course include PC board layout and construction, soldering, wiring, component selection, metal fabrication, plastic fabrication, wood fabrication and general layout procedures. Note: Extra costs are associated with this course. CR: ELEC 1100.

ELEC 2210. Circuit Analysis II. 3 hrs.
Continuation of ELEC 100, including the theory and application of circuit analysis theorems. Also covered are nonsinusoidal waveforms, three-phase circuits and the use of computers in solving problems. PR: ELEC 1100, CR: MATH 1102.

ELEC 2215. Basic Transistors. 3 hrs.
Devices studied will include rectifiers, zeners, filters, bipolar transistors and field-effect transistors. The circuitry will include power supplies, the basic amplifier types, multistate amplifiers, power amplifiers, switching circuits and oscillators. PR: ELEC 2200. CR: MATH 1102, ELEC 2210.

ELEC 2220. Linear Electronics. 3 hrs.
Study of the basic concepts of linear integrated circuits, including OP amps, regulators, comparators, timers and phase-locked loops. PR: ELEC 2210, 2215.

ELEC 2230. Digital Electronics. 3 hrs.
Theory and experimentation with SSI, MSI, and LSI devices and systems, including such basic components as gates, flip-flops, counters, decoders, timers, displays, memories, etc., and such systems as thermometers, tachometers, meters, etc. PR: ELEC 2210, ELEC 2215.

ELEC 2240. Industrial Electronics. 3 hrs.
Study of the operation of industrial power control systems, including power devices and control circuits. Power devices covered include relays, contactors, transistors, SCRs and TRIACs. Control circuits include UJTs, PUTs, DIACs, photo-devices, timers and control ICs. PR: ELEC 2220, 2230. Not taught in fall.

ELEC 2250. AC-DC Machinery and Controls. 3 hrs.
Practical aspects in the use and maintenance of AC-DC machinery and power distribution, including motors, generators, starters, speed controllers, breakers, transformers, etc. PR: ELEC 1100, MATH 1102.

ELEC 2260. Communication Systems. 3 hrs.
Theory, operation, and maintenance of AVMA, FM, PM and digital communications systems. PR: ELEC 2220, 2230.

ELEC 2270. Microcomputers. 3 hrs.
Theory and experimentation with microcomputers, including instruction sets, memories, I/O, programming (machine code, assembler, and high level), interrupts, peripherals and interfacing. PR: ELEC 2230, COMP 1101.

ELEC 2280. Programmable Controllers. 3 hrs.
An introduction to programmable controllers and their application to sequential process control. Topics include basic operating characteristics, relays, timers, counters, sequencers, editing and on-line data control. Practical laboratory experiences will be provided in controller applications, programming, installation and maintenance. PR: COMP 1101, ELEC 2230.

ELEC 3300. Advanced Linear Electronics. 3 hrs.
Study of linear devices including OP, AMPS, comparators, PLLs, timers, audio ICs, voltage references and current references. The course will include analysis and design concepts for the circuits studied. PR: ELEC 2260, 2270. CR: TECH 3300 OR MATH 1186 or MATH 3315.

ELEC 3310. Advanced Microcomputer Systems. 3 hrs.
Continuation of ELEC 2270, with more in-depth study and laboratory work. Topics included are A/D and D/A converters, serial communications, interfacing to power devices, etc. PR: ELEC 2270.

ELEC 4400. Senior Electronics Project. 3 hrs.
Writing Intensive
Instructor-approved project integrating concepts from previous courses. This course will allow the student to pursue specialized interests and show that s/he can complete an individual project. Baccalaureate majors only. PR: ELEC 3300 and 3310, instructor's consent.

ELEC 4410. Data Acquisition and Control Systems. 4 hrs.
Theory and use of data acquisition and control systems, including transducers, signal conditioning circuits, multiplexing, A/D and D/A converters, computers and control devices. Baccalaureate majors only. PR: ELEC 2240, and 3300.

EMERGENCY MEDICAL SERVICES

EMMS 1100 Introduction to EMS. 2 hrs.
This course is designed to acquaint the student with emergency medical services roles & responsibilities, well being of the EMS provider, illness and injury prevention, medical-legal issues, ethics, therapeutic communications, and life span development.

EMMS 1103 Emergency Medical Technician - Basic. 7 hrs.
This course provides didactic and practical application in basic life support aspects of pre-hospital care and is based upon the U.S. Department of Transportation's National Standard Curriculum for Emergency Medical Technician - Basics. This course prepares students for the National Registry of EMT's certification examination. There will be six lecture hours and two lab hours each week.

EMMS 1104 Emergency Medical Services-Operation. 2 hrs.
This course will include in-depth review of such topics as emergency vehicle operations, medical incident command, rescue awareness and operations, hazardous materials recognition and crime scene awareness.

EMMS 1106 Emergency Medical Services-Practicum I. 1 hr.
This course provides the student with the opportunity to observe and apply the skills learned in EMS 103 in a supervised clinical setting including a local hospital emergency department, regional medical command center and on a field EMS unit. A minimum of fifty hours is required and will be scheduled by the student on an individual basis through the EMS Coordinator.

EMMS 1107 Basic Trauma Life Support. 1 hr.
This two day course is designed to teach EMT's First Responders and other health care professionals to rapidly assess, resuscitate, package, and transport patients with traumatic injuries. Simulated traumatic injuries in situations and scenarios will be used to evaluate the students practical skills. Participants who choose to be certified will be required to pay the necessary certification fees required by State or National certifying agencies.

EMMS 1108 Emergency Medical Services-Pharmacology. 3 hrs.
In this course students will learn about pharmacodynamics, pharmacokinetics, drug administration, intravenous therapy and specific medications used in the pre-hospital setting.

EMMS 1109 Cardiopulmonary Resuscitation (CPR) and Workplace Safety. 1 hr.
In this course students will learn adult and pediatric basic like support skills CPR and study the numerous health and safety issues associated with health care facilities. The topics include but are not limited to: OSHA standards, emergency preparedness, fire safety, electrical safety, compressed gas safety, tuberculosis/respiratory protection, blood borne pathogens and biological hazards, potential chemical and drug exposures, ergonomic hazards from lifting and repetitive tasks and how to safely handle these potential hazards. This course may be repeated for re-certification purposes.

EMMS 1111 Home Land Security Practicum I. 1 hr.
This course provides the student with the opportunity to observe and apply the skills learned in the homeland security core courses. The locations visited will include hospital emergency departments and triage areas, 911 centers, regional medical command center and field EMS unit rotations. A minimum of twenty-four hours is required and will be scheduled by the student on an individual basis through the EMS Coordinator.

EMMS 1112 Emergency Response to Terrorism: Basic Concepts. 3 hrs.
This course is designed to prepare first-responder personnel to take the appropriate course of action at the scene of a potential terrorist incident. The course will provide students with a general understanding and recognition of terrorism, defensive considerations (biological, nuclear, incendiary, chemical and explosive), as well as command and control issues associated with criminal incidents. The student will be able to recognize and implement self-protective measures, secure the scene, complete appropriate notifications to local, State, and Federal authorities, and assist in completing a smooth transition from emergency to recovery and termination operations.

EMMS 1199 Special Topics in Emergency Medical Services. 1-12 hrs.
This course is concerned with specialized studies in selected topics. The topics to be studied will be determined by the EMS Coordinator and approved by the School Chairperson. Credits earned will be applicable as free electives in degree and certificate programs.

EMMS 2200 Advanced Cardiac Life Support. 1 hr.
This two day course is designed to teach EMT - Intermediates, Paramedics, and other advanced life support health care professional the most current knowledge and skills in caring for adult patients with cardiac emergencies. Scenario based instructions is used to teach and evaluate the participants knowledge and skills. A basic understanding of electrocardiography and arrhythmia recognition is recommended. Participants who choose to be certified will be required to pay the necessary certification fees required by State or National certifying agencies.

EMMS 2201 Pediatric Advanced Life Support. 1 hr.
This two day course is designed to teach EMT Intermediates, Paramedics, and other advanced life support health care professionals the most current knowledge and skills in caring for pediatric patients. This course covers a broad spectrum of pediatric emergencies. Participants who choose to be certified will be required to pay the necessary certification fees required by State or National Certifying agencies.

EMMS 2207 Airway Management and Advanced Patient Assessment. 2 hrs.
In this course students will learn the proper approach to patient assessment and advanced airway management skills for both medical and trauma patients.

EMMS 2208 Pathophysiology and Shock Trauma Resuscitation. 3 hrs.
In this course students will learn the general principles of pathophysiology, treatment of shock and recognition and management of specific traumatic emergencies.

EMMS 2209 Emergency Medical Services - Practicum II. 2 hrs.
This course provides the student with the opportunity to observe and apply the skills learned in EMMS 2207, 2208 and ALLH 1106 in a supervised clinical setting including a local hospital emergency department, respiratory therapy department and operating room and on a field EMS unit. A minimum of one hundred clinical hours is required and will be scheduled by the student on an individual basis through the EMS Coordinator.

EMMS 2210 Medical Emergencies I. 4hrs.
In this course the student will review the pathophysiology, assessment and management of medical patients with pulmonary and cardiovascular emergencies.

EMMS 2211 Emergency Medical Services - Practicum III. 2 hrs.
This course provides the student with the opportunity to observe and apply the skills learned in EMMS 2210 in a supervised clinical setting including a local hospital emergency department, respiratory therapy, cardiac care unit, and on a field EMS unit. A minimum of one hundred clinical hours is required and will be scheduled by the student on an individual basis through the EMS Coordinator.

EMMS 2212 Medical Emergencies II. 4 hrs.
In this course the student will review the pathophysiology, assessment ant management of medical patients with neurological and endocrinological emergencies, allergies and environmental emergencies, infectious and communicable diseases, behavioral, gynecological and obstetrical emergencies.

EMMS 2213 Special Patients & Situations. 2 hrs.
In this course the student will take an in depth look at the approach to patients with special needs such as neonatal, pediatric and geriatric patients, patients with mental or physical impairments, or patients with high technology medical devices in the out-of-hospital setting.

EMMS 2214 Emergency Medical Services - Practicum IV. 2 hrs.
This course provides the student with the opportunity to observe and apply the skills learned in EMMS 2212 and 2213 in a supervised clinical setting including a local hospital emergency department, pediatric unit, obstetrical unit, psychiatric unit and on a field EMS unit. A minimum of one hundred clinical hours is required and will be scheduled by the student on an individual basis through the EMS Coordinator.

EMMS 2215 Assessment Based Management. 1 hr.
This course will serve as the cumulative review and remedial application of what the student has learned in EMMS 2207 - 2214. The course will focus on providing summative evaluation of the student's performance in simulated situations and or scenarios.

EMMS 2221 Home Land Security Practicum II. 1 hr.
This course provides the student with the opportunity to observe and apply the skills learned in the homeland security core courses. The locations visited will include the Center for Rural Emergency Medicine, Local branch of the West Virginia Office of Emergency Services and field EMS unit rotations. A minimum of twenty-four hours is required and will be scheduled by the student on an individual basis through the EMS Coordinator.

EMMS 2222 Emergency Response to Terrorism: Tactical Considerations-Emergency Medical Services. 3 hrs.
This course is designed for first on-the-scene responding EMS personnel with the responsibility to render patient care to victims of terrorist incidents. The student will be trained in security considerations, identifying signs of terrorism, anticipating unusual response circumstances, assessing information, and initiating self-protection actions. The student also will apply their knowledge about responding to a terrorist event, providing patient care, identifying and preserving evidence, managing site safety, documenting the event, and debriefing personnel.

EMMS 2223 Home Land Security Practicum III. 1 hr.
This course provides the student with the opportunity to observe and apply the skills learned in the homeland security core courses. The locations visited will include Local Emergency Planning Committees, Fire Departments, and field EMS unit rotations. A minimum of twenty-four hours is required and will be scheduled by the student on an individual basis through the EMS Coordinator.

EMMS 2224 Basic Life Support and Hazardous Materials Response. 1 hr.
This course will emphasize critical concerns for emergency medical responders at hazardous materials incidents. Elements of this course include safety issues for emergency medical service hazardous materials response, managing contaminated victims requiring emergency medical assistance, decontamination and treatment procedures of a basic life support nature, and transportation and receiving facilities. The course will assist the student in understanding and complying with Federal regulations and national recommendations concerning emergency medical response to hazardous materials incidents.

EMMS 2225 Home Land Security Practicum IV. 1 hr.
This course provides the student with the opportunity to observe and apply the skills learned in the homeland security core courses. The locations visited will include a branch of the West Virginia Department of Health and Human Resources, a branch of the Federal Emergency Management Agency, and field EMS unit rotations. A minimum of twenty-four hours is required and will be scheduled by the student on an individual basis through the EMS Coordinator.

ENGLISH

ENGL 0092 S-C&TC Basic Reading and Study Skills
(See Academic Development Center)

ENGL 0097. S-C&TC Composition Skills. 3 hrs.
(See Academic Development Center)

ENGL 1104. S-C&TC Written English I. 3 hrs.
This course offers a process-oriented practice in drafting, revising, and editing texts. Students learn the principles of expository writing, thesis formulation, organization, paragraph development, audience analysis, appropriate diction, and sentence structure. The course also includes an introduction to reading for content in texts selected from across the disciplines. PR: Minimum scores of 18 on the ACT, 450 on the SAT-V, 71 on the COMPASS test, or successful completion of an appropriate basic writing class (e.g., English 0097). NOTE: English 1104 is a prerequisite for enrollment in all other English courses. A "C" in English 1104 is a graduation requirement for all degrees.

ENGL 1108. S-FSU Written English II. 3 hrs.
A continuation of Written English I that provides experience in analyzing and writing argument and persuasive prose. A central feature of the course is a library research project that is intended to develop familiarity with reference sources and skill in summarizing the diverse points of view of multiple sources. PR: A C or better in ENGL 1104. NOTE: the grade of C or better in ENGL 1104 and 1108 is a graduation requirement for all degrees.

ENGL 1109. S-C&TC Technical Report Writing. 3 hrs.
This course provides practice in writing expository articles and technical reports. In addition to scientific/technical reports and proposals, students also write business letters, memoranda, and other types of written communication common to the industrial and business worlds. PR: "C" in English 1104 (Written English I). A grade of "C" or better in English 1109 is required for graduation when English 1109 is required in the student's program of study.

ENGL 2220. S-FSU World Literature I: Origins to 1650. 3 hrs.
A survey of literary masterpieces from around the world. Readings will include religious texts (such as the Bible, the Koran and the writings of Confucius); the epic (Homer, Dante and Milton); poetry (Li Po, Ovid and Petrarch); drama (Sophocles, Shakespeare and non-Western traditions such as Japanese Noh theater); and narrative fiction (tales from

The Thousand and One Nights, The Tale of Genji and Don Quixote). PR: ENGL 1104.

ENGL 2221. S-FSU World Literature II: 1650 to the Present Day. 3 hrs.

English 2221 offers a study in translation of literary masterpieces from around the world, including satire (works by authors such as Moliere, Swift and Voltaire); drama (K'ung Shan-Jen, Ibsen, Chekhov and Al-Hakim); poetry (Basho, Keats, Dickinson and Eliot); the short story (Flauber, Ichiyo, Lu Xun and Gordimer); and the novel (Yasunari, Achebe and Desai). PR: ENGL 1104.

ENGL 2230. S-FSU Introduction to Literature I: Prose Narratives . 3 hrs.

A study of the narrative art both in fictional forms (the short story, the novel, allegory) and non-fictional forms (autobiography, personal essay), with readings from many cultures within a world context, giving substantial exposure to important works written in the last 100 years and to those written by women and minorities. PR: ENGL 1104.

ENGL 2231. S-FSU Introduction to Literature II: Poetry & Drama. 3 hrs.

The focus of this course is on the forms and conventions of the genres through close reading, discussion, and written response. Students will survey representative works from fifth-century Athens to the most contemporary voices. Relevant exposure will be given to poems and plays by and about women and minorities. PR: ENGL 1104.

ENGL 3301. Theories of Language and their Application to English I. 3 hrs.

This course covers the linguistic subjects of syntax, morphology, phonology, semantics and pragmatics, which provide concepts and techniques for understanding languages, with special emphasis upon English. Topics will include descriptive versus prescriptive grammar, dialect and register, synchronic and diachronic language variation, the history of English, language acquisition, the leading theories of language, language theory and the art of composition. Required of all prospective teachers of English; to be taken before Clinic III. PR: ENGL 1108.

ENGL 3302. Theories of Language and their Application to English II. 3 hrs.

Continuation of ENGL 3301, emphasizing practical applications to teaching writing and grammar in grades 5-12. PR: ENGL 3301.

ENGL 3303. Survey of Amer. Lit. I: Beginnings to the 1850s. 3 hrs.
Writing Intensive

A study of American literary traditions, from the poets, diarists and chroniclers of the seventeenth and eighteenth centuries to the writers of imaginative and autobiographical prose and poetry of the early/mid 1800s. PR: ENGL 1108.

ENGL 3304. Survey of Amer. Lit. II: The 1850s to the Present. 3 hrs.
Writing Intensive

A study of America's literary traditions from the 1850s to the present, including the poets, "local color" writers, naturalists and realists of the late 1800s; the experimental poetry and fiction of the early 1900s; the major dramatists; and a large sampling of the writers from the last half of the century. PR: ENGL 1108.

ENGL 3313. Survey of British Literature I: Beowulf to 1798. 3 hrs.
Writing Intensive

A study of British literature, beginning with Beowulf and continuing through the 18th century, including Chaucer, Shakespeare, Donne, Milton, Swift and Pope. PR: ENGL 1108.

ENGL 3314. Survey of British Literature II: 1798 to Present. 3 hrs
Writing Intensive

A study of British literature from the early Romantic period through the present day, including such writers as Blake, Wordsworth, Austen, Tennyson, Dickens, Yeats, Shaw, Woolf, Joyce, Eliot, Beckett and Auden. PR: ENGL 1108.

ENGL 3320. Literary Criticism. 3 hrs.

A study of past and present critical methods and of the theoretical assumptions upon which they are based. PR: ENGL 1108.

ENGL 3332. Narrative and Descriptive Writing. 3 hrs.
Writing Intensive

An introduction to narrative and descriptive techniques in fiction, non-fiction, dramatic and poetic writing. Exercises in writing techniques prepare students to write a variety of finished works. Students also read and discuss models by accomplished writers. This course fulfills the Liberal Studies Electives writing option. PR: ENGL 1108.

ENGL 3333. Writing Non-Fiction. 3 hrs.
Writing Intensive

Study and practice of the various kinds of expository writing, with special emphasis upon the skilled production of research papers. This course fulfills the Liberal Studies Electives writing option. PR: ENGL 1108.

ENGL 3344. Writing Poetry. 3 hrs.
Writing Intensive

A workshop-based, individual-centered course in which students examine the tradition of poetry and poetics and how their own interest in writing poems may work within and against that tradition. The emphasis is on writing, revising and presenting poems, first privately and then to various public audiences. Students will also read and respond to modern poems and essays on poetics. Students are advised to first take ENGL 3332. PR: ENGL 1108.

ENGL 3345. Writing Fiction. 3 hrs.
Writing Intensive

A workshop-based, individual-centered course in which students examine the tradition of fiction and how their own interest in writing stories may work within and against that tradition. The emphasis is on writing, revising and presenting stories, first privately and then to various public audiences. Students will also read and respond to modern stories and essays on fiction. Students are advised to first take ENGL 3332. PR: ENGL 1108.

ENGL 3349. Advanced Technical Communication. 3 hrs.
Writing Intensive

This course places special emphasis on the preparation and implementation of the extensive, formal report in business, industry and public service organizations. As such, it will feature an introduction and orientation to source materials for advanced technical research and presentation, and it will also address the use of technical language for informed and uninformed audiences. PR: ENGL 1108 or 1109.

ENGL 3354. Children's Literature. 3 hrs.

This course offers a survey of literature desirable for children; topics include development of principles of selection and standards of evaluation. Students will develop acquaintance with a wide range of current books. PR: ENGL 1104.

ENGL 3355. Young Adult Literature. 3 hrs.

This course offers a survey of literature appropriate for adolescence; topics include development of principles of selection and standards of evaluation. Students will develop acquaintance with a wide range of current books. PR: ENGL 1104.

ENGL 3361. Major American Writers 1820-1870. 3 hrs.

A seminar on the lives and works of three or four of the most enduring, influential writers of these decades. Among the writers who may be chosen for study are Irving, Poe, Hawthorne, Emerson, Thoreau, Melville, Whitman and Dickinson. Students are advised to first take 3303. PR: ENGL 1108.

ENGL 3362. Major American Writers 1870-1940. 3 hrs.

A seminar on the lives and works of three or four of the most enduring, influential writers of these decades. Among the writers who may be chosen for study are James, Twain, Crane, Howells, Dreiser, Cather, Wharton, Frost, Stevens, W. C. Williams, Hemingway, Fitzgerald and Faulkner. Students are advised to first take 3304. PR: ENGL 1108.

ENGL 3363. The American Novel. 3 hrs.
A course designed to trace the development of the American novel from the late eighteenth century to the present. Important American novels will be analyzed in a chronological sequence. Students are advised to take either ENGL 3303 or 3304 first. PR: ENGL 1108.

ENGL 3370. Literature of the Middle Ages. 3 hrs.
This course presents a study of English and continental European literature of the Middle Ages. Genres covered include the chronicle, romance, fabliau, beast fable, lyric, saint's legend and drama. Students are advised to take ENGL 3313 first. PR: ENGL 1108.

ENGL 3373. Chaucer. 3 hrs.
A study of selected works by Chaucer that help to reveal the range and development of his thought and art. The emphasis will be on The Canterbury Tales and Troilus and Criseyde. Students are advised to take ENGL 3313 first. PR: ENGL 1108.

ENGL 3374. Shakespeare. 3 hrs.
Writing Intensive
A study of representative histories, comedies and tragedies. Students are advised to take ENGL 3313 first. PR: ENGL 1108.

ENGL 3375. Seventeenth-Century British Literature. 3 hrs.
A study of important British writers of the period, including Donne and Herrick, and emphasizing Milton. Students are advised to take ENGL 3313 first. PR: ENGL 1108.

ENGL 3377. Eighteenth-Century British Literature. 3 hrs.
A study of important British writers of the period, particularly Dryden, Swift, Pope, and Johnson. Students are advised to take ENGL 3313 first. PR: ENGL 1108.

ENGL 3378. Literature of the Romantic Period. 3 hrs.
A concentrated study of the works of such writers as Blake, Wordsworth, Coleridge, Byron, Shelley and Keats. Students are advised to take ENGL 3314 first. PR: ENGL 1108.

ENGL 3379. Literature of the Victorian Period. 3 hrs.
A concentrated study of the works of such writers as Tennyson, Browning, Rosetti, Arnold, Swinburne, Mill, Ruskin and Carlyle. Students are advised to take ENGL 3314 first. PR: ENGL 1108.

ENGL 3380. Twentieth-Century British Literature. 3 hrs.
A study of the major texts in 20th-century British literature that reflect the cultural, social and literary issues of the time. Among the writers who may be studied are poets (from Yeats and Eliot to Heaney and Larkin), playwrights such as Beckett and Stoppard and fiction writers, from Joyce and Waugh to Fowles and Drabble. Students are advised to take ENGL 3314 first. PR: ENGL 1108.

ENGL 3381. The British Novel. 3 hrs.
A historical and critical study of significant British novels of the eighteenth, nineteenth, and twentieth centuries. Students are advised to take either ENGL 3313 or 3314 first. PR: ENGL 1108.

ENGL 3382. The World Novel. 3 hrs.
A study of the enduring accomplishments of the novelists of Europe, Latin America and other regions. Novels to be read may include those of Cervantes, Voltaire, Goethe, Flaubert, Tolstoy, Dostoevsky, Kafka, Camus, Kundera and Marquez. PR: ENGL 1108.

ENGL 3385. The Arthurian Tradition. 3 hrs.
This course surveys Arthurian literature from its 12th-century origins to the present day. It will include analysis of the archaeological evidence for a historical Arthur, as well as the Celtic background from which the legends spring. PR: ENGL 1108.

ENGL 3386. The Bible as Literature. 3 hrs.
This course focuses on the literary history, interpretation and genres of the Bible, as well as significant biblical tropes, metaphors and narratives. PR: ENGL 1108.

ENGL 3387. Folk Literature. 3 hrs.
This course is an analysis of the components and genres of oral folk literature through poetry (the folk song, ballad and instrumentation), narrative (myths, legends, folktales, fables, morals, anecdotes, personal narratives and other forms of folk narrative), and language (verbal lore, such as dialect/accent, beliefs and superstitions, proverbs, sayings, riddles and jokes) within the contextual process of perpetuation (storytelling) and preservation (collecting and motifing). Emphasis will be placed on the Appalachian cultural perspective. A field study will be part of the course. Also listed as FOLK 3300. PR: ENGL 1108.

ENGL 3388. Women's Literature. 3 hrs.
A study of classic texts in women's literature, including such works as A Room of One's Own, "Tell Me A Riddle," Jane Eyre, Orlando, The Awakening and Adrienne Rich's work. Students will also study the works of such contemporary female writers as Caryl Churchill, Marilynne Robinson, Margaret Atwood, Gloria Naylor, Toni Morrison, Rachel Ingalls and Maxine Hong Kingston. PR: ENGL 1108.

ENGL 3389. Minority Literature. 3 hrs.
Reflecting the diversity of cultural sources and forms in America, the ideas and methods of writers outside the main literary and social traditions are studied for their contribution to the American experience. Minority writings include works by black, Latin, Native American and Asian authors, as well as the products of European minority groups such as Jewish and Irish writers. PR: ENGL 1108.

ENGL 3390. Modern Drama. 3 hrs.
The study of drama from the nineteenth century to the present. PR: ENGL 1108.

ENGL 3391. The Short Story. 3 hrs.
A critical study of this art form based upon the work of British, continental and American authors. PR: ENGL 1108.

ENGL 3392. Contemporary Poetry. 3 hrs.
A course on Anglo-American poetry since WW II, and the influence on contemporary poetry of Modernism and other cultures (notably, European and Latin American poetries). The course will also discuss the effects of free verse, imagism, surrealism, the New Criticism and social/political movements on current developments in poetry and poetics. PR: ENGL 1108.

ENGL 3393. Southern Literature. 3 hrs.
A study of representative Southern authors and works from colonial times to the present, emphasizing characteristically Southern themes and points of view. Included are such figures as Twain, Wolfe, Faulkner, Welty, Ransom and O'Connor. PR: ENGL 1108.

ENGL 3394. The Art of the Motion Picture. 3 hrs.
A course designed to trace the evolution of the motion picture from its beginnings to the achievements of the present. Such aspects of the film as genre (the western, the horror film), techniques (sound, editing, photography), themes (forbidden knowledge, vengeance), and character types (cops, comics, crooks) will be considered. Although this course is intended for serious students of the verbal and visual arts, it is also designed to accommodate (as an elective) interested students who are avid filmgoers and desire to improve their appreciation of the films they see. PR: ENGL 1108.

ENGL 3395. Journeys in Comparative Mythology. 3 hrs.
A cross-cultural study of cosmic myth, investigating explanations offered by various peoples to questions that have been asked since the dawn of time. The course includes mythological traditions such as Greco-Roman, Norse, Mesopotamian, African, Celtic, Indian, Chinese, South American and Native American. PR: ENGL 1108.

ENGL 3399. Special Topics in English. 1-12 hrs.
Studies in special selected topics, to be determined by the instructor and approved by the chairperson. Credits earned will be applicable as free electives in degree and certificate programs. PR: ENGL 1108.

ENGL 4431. Methods and Materials in Teaching English. 3 hrs.
Study and practice in the techniques of teaching the fundamentals of grammar, mechanics, composition and the varied types of literature; taken as part of the Initial Performance Practicum. Students are advised to take ENGL 3355 before 4431. Students will take 4431 the semester before the Professional Block. PR: Successful completion of PPST PRAXIS Test.

ENGL 4441. Independent Study. 1-4 hrs.
Intensive study in the work of one or more significant authors. Subject area to be suggested by the students and approved by the instructor. Students may conduct an independent investigation in an area of interest to them and represent the results in one or more research papers.

FAMILY AND CONSUMER SCIENCES

FACS 3310. Family Life Education. 3 hrs.
This course is the study of the changing American family and of interpersonal relationships between family members at each stage in the family life cycle. Special reference is made to mate selection, adjustments, crises and supports for families.

FACS 3312. Consumer Economics. 3 hrs.
This course is a study of the selection of consumer goods and services, and factors affecting selection, such as labeling, advertising, credit, contracts and consumer legislation, car, health and life insurance for family security, social security and wills.

FACS 3315. Management in the Family. 3 hrs.
Writing Intensive
A study of management process and its effect on the family. Students will consider decision-making, economics, effective use of resources and the interaction of values, standards, and goals for the family. Emphasis will be on the use of technology and its influences on the home, the family and the future of our society.

FACS 3318. Management Problems in the Family. 2 hrs.
The course includes analysis and application of theories and topics such as management principles, common problems, the family's use of resources, management of the individual and the family relationships, discovering how the special needs can confuse and strain the home, evaluating the needs and wants that technology adds to the home and family, and planned and supervised experiences of home management problems.

FACS 3320. Housing in Society. 3 hrs.
This course is designed to help individuals analyze social, physical, economic and psychological needs which must be met through housing. Concepts covered will include effective use of space, housing as a global issue, effective use of resources and environmental concerns. Students will also learn about computer-aided floor plan design.

FACS 3323. Advanced Quantity Foods. 3 hrs.
This course is a continuation of FOSM 2223 and focuses on more complex food service methods, including meats, fish, poultry, cheeses, eggs, dairy products and baked items. PR: FOSM 2223.

FACS 3328. Food Purchasing, Menu Planning, and Cost Controls. 3 hrs.
This course is a study of menu planning, utilization of standardized recipes and food purchasing as it relates to cost controls. PR: FOSM 2228.

FACS 3330. Introduction to Pre-schooler Development. 3 hrs.
The course examines the theory and research relevant to the physical, social, emotional, cognitive and creative development of the pre-schooler. Particular emphasis is placed on objective observation of pre-schoolers' behavior, growth and development.

FACS 3331. Adolescent Development. 3 hrs.
The course examines theory and research relative to adolescents' physical, emotional and intellectual development, relationships with parents and peers and growth in self-direction. Special attention is given to identity, self-concept and personality, societal needs, adolescent pregnancy, sexually transmitted diseases, human sexuality, adolescents in school, occupational interests, family dynamics and health issues.

FACS 3332. Child Development Problems. 3 hrs.
Students in this course will develop an appreciation of theory and research for planning programs, materials, and guidance to enhance development and learning in all areas of child development. A supervised experience in working with preschool children will include 35 to 100 hours of on-site experiences with young children.

FACS 3335. Parenting. 3 hrs.
Writing Intensive
Students will consider the applicability of various theoretical approaches to child-rearing in families. Emphasis is placed on the social and personal definitions of parental roles and the parent-child interaction.

FACS 3383. Social and Emotional Development of Children. 3 hrs.
The course will examine the theory and research relevant to the social and emotional development of children from infancy to age five. Emphasis will be on interpersonal relations, aggression, cooperation and competition. PR: EC 2283.

FACS 3399. Special Topics in Family and Consumer Sciences. 1-3 hrs.
A course designed to study special selected topics, to be determined by the instructor and approved by the coordinator. Credits earned will be applicable as free electives for degree programs.

FACS 4400. Senior Seminar I. 1 hr.
A special topics seminar designed to study the global and cultural issues related to Family and Consumer Sciences. PR: Senior standing.

FACS 4401. Senior Seminar II. 1 hr.
An advanced special topics seminar designed to study the career, technical, and professional issues related to Family and Consumer Sciences. PR: Senior standing.

FACS 4431. Methods and Materials in Teaching Family and Consumer Sciences. 3 hrs.
A study is made of the philosophy and goals of teaching vocational Family and Consumer Sciences at the middle, secondary and post-secondary levels. Students will learn methods, procedures, techniques, and resources for teaching the subject, and will analyze the selection of equipment and supplies to manage a Family and Consumer Sciences department.

FACS 4492. Child Development Internship. 4 hrs.
The student will participate in an Early Childhood Education Center as a student assistant. PR: EC 2262.

FACS 4499. Special Topics in Family and Consumer Sciences. 1-3 hrs.
A course designed to study special selected topics, to be determined by the instructor and approved by the coordinator. Credits earned will be applicable as free electives for degree programs.

FINANCE

FINC 1180. S-FSU Principles of Banking. 3 hrs.
This course is a survey of and introduction to the field of banking, with some concentration on the functions and operations of commercial banks. It also covers other depository institutions, non-bank financial entities, the Federal Reserve System, the nature of interest, bank regulation, the vocabulary of banking and some current banking issues.

FINC 2201. S-FSU Introduction to Financial Management. 3 hrs.

This course is intended to give the student a background in the field of financial management, with emphasis on cost of capital, cost of external capital, cost of retained earnings, and similar concepts. It will also cover material investment decisions and financial decisions. PR: ACCT 2201.

FINC 2230 S-C&TC Financial Literacy. 3 hrs.

This course provides students with the framework and tools for preparing personal financial plans that serve as roadmaps for goal achievement. It emphasizes the dynamics of the personal financial planning process by considering the impact of life changes - birth, marriage, divorce, job and career, and death.

FINC 2260. Real Estate Principles. 3 hrs.

A general introduction to real estate as a business and as a profession, this course is designed to acquaint the student with the wide range of subjects and terminology necessary to the practice of real estate. The course will include the nature of real estate and ownership, principles and concepts of title transfer, title insurance, real estate marketing, financing, leasing, taxation, insurance, development, appraising and state license law. The objective of the course is to equip the student with concepts needed to continue successfully in future real estate courses and to pass the real estate salesmen's license examination.

FINC 2270. S-FSU Principles of Insurance. 3 hrs.

This course is primarily concerned with developing an understanding of the basic principles of insurance, as well as the nature and operation of the insurance business. Emphasis is given to the principles which underlie the entire field of insurance. Students will develop understanding of the fundamental areas of indemnity, insurable interest, coinsurance, risk, subrogation, proximate cause, other insurance, requisites of insurable risks, deductibles, valued policies, probability and many others. The important functional areas of rating, underwriting, marketing and adjusting are considered, as well as the subjects of regulation, reinsurance and company organization.

FINC 2288. S-FSU Consumer Lending. 3 hrs.

This course covers both the theory and practice of installment lending. Topics include credit evaluation, open- and closed-end lending, forms and terminology of lending, loan policy development, marketing, collections, law and regulation, direct and indirect lending, credit insurance, rate structure and yields. PR: FINC 1180.

FINC 2294. S-FSU Commercial Lending. 3 hrs.

This course provides a conceptual framework for the study of commercial lending. It focuses on how the commercial lending business is organized, how it contributes to bank profitability and the total commercial lending process. PR: FINC 1180.

FINC 2295. S-FSU Bank Internship. 3 hrs.

Selected students are placed in part-time banking positions with area financial institutions. The student has the opportunity to put theory into practice, while developing competencies through on-the-job training. Only full-time students pursuing a Bachelor of Science degree may participate in the program. Preference is given to students with a concentration in Finance or Accounting. This course may be repeated for up to six hours' credit. PR: FINC 1180, ACCT 2202.

FINC 3307. Personal Finance. 3 hrs.

A study of the problems a consumer must face in his or her day-to-day buying and living. It includes a brief survey of budgets, life insurance, investments, managing personal finance, buying services and other consumer issues.

FINC 3315. Venture Finance. 3 hrs.

A study of capital markets and sources, with particular emphasis on the development of skills and resources required to obtain the financial capital for entrepreneurial ventures. Major topics include attracting seed and growth capital from sources such as individuals, venture capitalists and institutional financiers. Case analyses present various ways that entrepreneurial companies have creatively identified, negotiated and structured financing. Students will prepare a financial proposal for the funding of an entrepreneurial venture. PR: BUSN 2205.

FINC 3350. Investments. 3 hrs.

This is an introductory survey course covering the broad field of investments, with a descriptive rather than quantitative approach. There is substantial emphasis on terminology and vocabulary, and the course covers fixed- and variable-return investments, options and futures, markets and brokerage operations, portfolio theory and analysis and real estate investments.

FINC 3384. Bank Management. 3 hrs.

This course examines the principles and practices of contemporary bank management. It covers the various aspects of bank organization and operation, capital formation and utilization, asset/liability management, planning, law and regulation, internal control, competition and deregulation, the evolution of banking and some selected current issues in banking.

FINC 3385. Analyzing Financial Statements. 3 hrs.
Writing Intensive

This course provides the student with the necessary techniques and tools to evaluate the financial condition and operating performance of a modern business. It will cover the terminology of financial analysis, horizontal and vertical analysis, financial ratios, pro-forma statements, funds flow analysis, break-even analysis and other analytical tools. PR: ACCT 2202.

FINC 3387. Bank Simulation. 3 hrs.

The simulation presents an integrated approach to bank management that reinforces technical and functional management skills. Students function as members of a bank management team, whose responsibilities include analysis and planning, organizational structure, administration, policy formulation and implementation.

FINC 3392. Trusts and Estate Planning. 3 hrs.

This course provides an overview of the law of wills, trusts, gifts and estates. Various strategies for reducing the taxation of gifts and estates will be addressed. Also included is the nature of the functions and services of a bank trust department.

FINC 4410. Managerial Finance. 3 hrs.

This advanced course is designed to extend the coverage of the field of corporate finance, with emphasis on capital budgeting, risk, capital structure and dividend policy and financing decisions. Special topics covered will include mergers and acquisitions, financial distress and international corporate finance. PR: FINC 2201.

FINC 4412. PC Applications for Managerial Finance. 3 hrs.

This course is designed to enable students to master the concepts and techniques of corporate finance using PC applications. The course will be taught in the computer lab, making extensive use of spreadsheet models and templates. The effect of policy will be measured and analyzed, and problems solved through the use of multiple case studies. Topics to be covered include financial analysis, financial forecasting and planning, capital budgeting and cost of capital. PR: INFO 1100, FINC 4410.

FOLKLIFE STUDIES

*FOLK 1100 Introduction to Museums. 2 hrs.

This course will introduce students to the various types of museums (historical, art, historic site/house, representational etc.). It includes presenting a general overview of museum operations, programming, fund raising, grant writing, volunteer management, interpretation, exhibit design and construction, personnel training and management, collections management, and museum networking.

*FOLK 1110 Craft Design and Marketing. 3 hrs.
This course gives students a broad understanding of the history of craft making, form and function, design and technique, materials and process, as well as an overview of craft application, critiquing, marketing, exhibiting, and documenting. This course presents an overview of craft publications, guilds, organizations, regional festivals, and internet marketing. An introductory overview of available local craft persons and their processes will be reviewed so that students may plan their apprenticeships.

*FOLK 1150 Folk Arts. 3 hrs.
This studio course gives students a hands-on learning approach to the historical understanding and making traditional/historical folk arts. Various materials will be used including fiber, wood, metal, paper, natural materials, and more to explore weaving/quilting, carving, tinsmithing/metal tooling, marbling/book binding/band box construction, doll making, and other traditional folk arts and crafts. An element of research will also be included in this course.

*FOLK 2210 Museum Education Programming. 3 hrs.
This course allows students to explore all types of museum programming with special emphasis on children's visitation, special events, adult programming, lecture series, fairs and festivals. Special attention will be drawn to the various educational techniques and tools used as well as evaluation processes. The design and publication of museum materials such as handbooks, exhibit cards, exhibition catalogues, research and information books, journals, and newsletters. will be covered in this course. A major goal of this course is to establish understandings of museum/school relationships as well as an enhancement of general public lifelong learning experiences.

*FOLK 2220 Museum Collections Management. 3 hrs.
This course will address a variety regarding museum collections including paper memorabilia, three dimensional artifacts, buildings, grounds, and other structures. The technical aspects of managing collections such as acquiring, identifying, processing, cataloging, storing, displaying, preserving, conserving, and researching will be the focus in this course.

*FOLK 2230 Museum Exhibit Design and Preparation. 3 hrs.
This course will include museum exhibit planning, research, text writing, design, construction, and installation of various types of storyline exhibits and presentations. Techniques will include computer graphics, photography, silkscreening, dry mounting, fixture and kiosk construction, lighting/ventilation/audio visual application, and other technical processes. PR: FOLK 1100

*FOLK 2240 Museum Interpretation. 3 hrs.
This course explores museum interpretation to the public, researchers, and school children, as well as training museum staff, administration, volunteers, students, and interns. Various avenues of actual interpretation will include the use of the museum facilities, buildings, artifacts, and publications. It may include oral interpretation, first person role play, costumed interpreter/demonstrator, and third person presentations. PR: FOLK 1100

*FOLK 2290 Museum Internship. 1-6 hrs.
This internship course explores will place the student in an hands-on museum located experience. Students will be placed in the museum type (historical, art, etc.) of their choice and will have as many "real" application experiences with interpretation, exhibit design and construction, collections management, public museum educational programming, administrative management, etc. that can be arranged with the museum of choice. Pre-internship conferencing between the student, museum representative, and the program coordinator will be expected. Conferencing will continue during the experience as well. May be repeated up to 6 hours, including a summer placement PR: FOLK 1100

*FOLK 2295 Folk Art/Craft Apprenticeship. 3-11 hrs.
During these course hours, students will work directly with master craft persons that have been chosen and arranged by Fairmont State Technical and Community College. Students will work in the master craft person's studio to become proficient in the folk art/craft media chosen. May be repeated up to 11 hours, including a summer placement. PR: FOLK 1110

** Pending Approval*

FOLKLORE STUDIES

FOLK 2200. S-FSU Introduction To Folklore. 3 hrs.
This course is an introduction to conceptual foundations in folklore, such as its social base, tradition, folklore and cultural history, folklore as projection, genre, function, structure, text and context, through a historical and philosophical survey of approaches to folklore topics. Emphasis will be placed on the Appalachian cultural perspective. A field study lab of one hour will accompany this course.

FOLK 2201. Lab Field Research/Oral History Techniques. 1 hr.
This lab must be taken along with Introduction to Folklore before any of the other courses in the program. It is a study of the theories, techniques and procedures of field research as they apply to all folk study genres, along with the legal and ethical considerations, uses and planning of local oral history projects.

FOLK 3300. Folk Literature. 3 hrs.
This course is an analysis of the components and genres of oral folk literature through poetry (the folk song, ballad and instrumentation), narrative (myths, legends, folktales, fables, morals, anecdotes, personal narratives and other forms of folk narrative), and language (verbal lore, such as dialect/accent, beliefs and superstitions, proverbs, sayings, riddles and jokes) within the contextual process of perpetuation (storytelling) and preservation (collecting and motifing). Emphasis will be placed on the Appalachian cultural perspective. A field study will be part of the course. Also listed as ENGL 3387. PR: ENGL 1108.

FOLK 3301. Material Culture. 3 hrs.
A study of the tangible evidence of civilization, through the perspective of the Appalachian culture. Material culture is presented within the context of folklife and traditional craftsmanship, including crafts, art, traditional foodways, clothing, tools and technology. Students will examine the study of material folk culture from various methodological and theoretical perspectives, including artifactural analysis and fieldwork. PR: FOLK 2200.

FOLK 3302. Regional Cultural Geography and History. 3 hrs.
A study of regional personality through the relationship and attitudes of people to land and land use, along with migration patterns, archaeological perspectives, behavior and popular customs. In a field study, archival techniques and research will be examined. PR: FOLK 2200.

FOLK 4400. Directed Folklore Study. 3-6 hrs.
This course provides intensive study, reading, and research of a folklore topic selected by a student with an opportunity to mentor with a specialist in the field. Topics will be interdisciplinary, such as the following: Appalachian (Regional/Written) Literature, Ethnography and Process of Storytelling, Urban and Popular Culture, Children's Folklore, Traditional Folk Music (Vocal and Instrumental), Appalachian African-American Lore, Rural Education, Arthurian Legend: Comparative Folk Literature Study, and Vintage Clothing Preservation. Note: If an existing course is available on campus reflecting any of these topics, a student may opt to take it, with the approval of the Folklore Studies advisor. The West Virginia Folklife Center at Fairmont State and the Folklore Studies advisor will also help students to network with specialists in the community. PR: All other courses in the minor program. This course is for seniors only.

FOLK 4401. Folklore Applications. 3 hrs.
An analysis of the various areas of folklore application, ranging from teaching/pedagogy, museum interpretations, and publications to the care, interpretation and presentation of artifacts. An internship and/or

individual project will conclude the course. PR: All other courses in the minor program. This course is for seniors only.

FOOD SERVICE MANAGEMENT

FOSM 1110. S-C&TC Nutrition. 3 hrs.
This course is a study of nutrients, their sources, and their relationship to bodily functions. Students will examine each stage of the life cycle as it relates to changing nutritional requirements for individuals and family groups of varying cultural and economic levels. Students will evaluate their daily nutritional intake against recommended daily allowances.

FOSM 1119 Intro. to the Food Service and Hospitality Industry. 3 hrs.
This course is an overview of all aspects of the hotel, foodservice, restaurant, and travel and tourism businesses, including operations, marketing, and sales. Trends in this rapidly changing industry will be stressed

FOSM 1120 Nutrition in Childhood & Adolescence. 3 hrs.
This course will provide an overview of basic nutrition as well as nutrient standards used to evaluate nutrition status among Americans. Specific focus will include nutrition needs from pre-pregnancy through adolescence. Students will evaluate the new dietary guidelines and food guide pyramid and complete a menu planning assignment and a computer aided diet analysis for an individual between the ages of 2-18.

FOSM 1121 Food Service Facilities & Equipment. 3 hrs.
The emphasis is on food service equipment selection and layout in relation to production and workflow. Specifications, energy sources, use and care of food service equipment will be included in the course. Students will demonstrate the utilization and care of selected food service equipment in a laboratory setting.

FOSM 1122 Safety & Sanitation. 2 hrs.
This course is a look at the latest information in the science of food safety along with appropriate principles to maintain food safety in an operation and to protect against food borne illness. This course incorporates the National Restaurant Association's certification curriculum. Students completing the final certification exam with a minimum score of 75% will be issued a certificate of completion.

FOSM 1130 Basic Baking. 3 hrs.
This course applies the fundamentals of the baking science to the preparation of a variety of pastry and baking products. Will include the use and care of equipment normally found in a bakeshop or baking area. PR or CR: FOSM 1121, FOSM 1122.

FOSM 1140 Food Service Cost Analysis and Management. 3 hrs.
This course will enable students to perform basic cost analysis related to food service operations. The student will perform calculations associated with food costs, labor costs, menu pricing, and other pertinent management functions.

FOSM 1199 Special Topics in Food Service. 1-3 hrs.
This course will provide an opportunity for students to further their study of principles and concepts in the various areas in Food Service Management and to apply their knowledge in a variety of applications both in the traditional classroom setting and in work/job related experiences. The class will be an individualized, arranged course, with learning outcomes determined by the instructor in consultation with the student. May be repeated up to 4 hours credit. Approval required by Program Coordinator only.

FOSM 2200 Introduction to Foods. 3 hrs.
This course is a study in the selection, storage, preparation, and presentation of food. This three credit hour course will investigate each of the following categories of food and apply knowledge gained to laboratory applications: Milk & Dairy Products; Meat, Poultry & Shellfish; Fruits & Vegetables; Grains & Starches; Breads; Desserts; & Beverages. Emphasis will be placed on meal planning, food safety, nutrient value, and quality in taste and appearance.

FOSM 2201 Principles of Food Selection & Preparation. 3 hrs.
This course provides a study of the selection, storage, preparation, and presentation of food. Students will investigate each of the following categories of food and apply knowledge gained to practical applications in the laboratory setting: Stocks and sauces, soups, meat and game, poultry and game birds, fish and shellfish, vegetables, potatoes and starches, salads and salad dressings, sandwiches, breakfast preparation, and dairy products. Emphasis will be placed on ensuring food safety, nutrient value, and quality in taste and appearance. FOSM majors only. PR: To be taken concurrently with FOSM 2203.

FOSM 2202 S-C&TC Principles of Quantity Food Production. 3 hrs.
Principles and techniques of quantity food preparation will be covered. Emphasis will be given to menu planning, use of standardized recipes, and quantity food production techniques. PR: FOSM 2201. To be taken concurrently with FOSM 2204.

FOSM 2203 S-C&TC Principles of Food Selection & Preparation Lab. 1 hr.
Students will apply basic principles of food selection and preparation in a controlled lab setting. Labs will include application of basic food science and food evaluation techniques. PR or CR: FOSM 1121, 1122. To be taken concurrently with FOSM 2201.

FOSM 2204 S-C&TC Principles of Quantity Food Production Lab. 1 hr.
Students will apply principles and methods of quantity food production using institutional equipment and evaluate food with consideration given to quality control and cost control. PR: FOSM 2203. To be taken concurrently with FOSM 2202.

FOSM 2209 Food Specialties-Garde Manger II. 3 hrs.
This course is the advanced garde mange techniques including aspic pates, sauces, terrines, and garnishes. The manipulation of special tools used in this type of food preparation is stressed. Buffet table arrangement, food display, and organization are studied. PR: FOSM 2203.

FOSM 2220 S-C&TC Diet Therapy. 3 hrs.
This course discusses the nutritional needs of different age groups, the special nutritional requirements in various diseases and the planning of menus to meet these various nutritional needs.

FOSM 2224 Purchasing and Receiving. 3 hrs.
Includes factors to consider in selecting, purchasing, receiving, and storing various foods. Emphasis is given to the development of purchasing policies, procedures, inventory control and storage. Computer application is included in the course.

FOSM 2225 Resort & Hotel Management. 3 hrs.
Students will study four primary areas of the resort and hotel lodging businesses; service and guest services, housekeeping, catering and banquets, and front desk operations. Students will focus on the revenue and cost centers associated with hotel industry. Emphasis will also be placed on management of rooms, food and beverage, marketing, engineering, accounting, human resources, and security.

FOSM 2227 Food and Beverage Merchandising. 3 hrs.
This course discusses catering for different types of social functions, dining room arrangement, and service to gain customer satisfaction. It also deals with purchase specifications, management and quality as applied to tableware, furnishing, equipment, and supplies.

FOSM 2228 Food Service Organization and Management. 3 hrs.
The students will analyze the organization and management of various types of food service programs. Special emphasis is placed on personnel, operating systems, budgeting, purchasing, work schedules, and supervision.

FOSM 2229 Food Service Practicum. 9 hrs.
A supervised work experience conducted in an assigned food service operation. Course may be repeated for up to 15 hours of credit based on emphasis area.

FOSM 2230 Advanced Baking. 3 hrs.
Students will develop skills in advanced baking techniques, bread making, pastries, and cake decorating. The class will also include information on the corollary business aspects, such as calculating size and determining costs. PR: FOSM 1130 Basic Baking

FOSM 2232 Pastry & Confections. 3 hrs.
Students will develop skills in advanced decorating techniques and more complex preparations of pastry, confections, and dessert products. Students will also be introduced to candy, pastillage, sugar, and chocolate work. PR: FOSM 1130 Basic Baking

FOSM 2250 Applications in Community & Medical Nutrition. 3 hrs.
This course will provide students with methods and practices necessary to access nutritional needs in client-oriented dietetic systems and community-oriented nutrition programs. Students will apply nutrition knowledge to the following: patient education, screening for nutritional risk, determining nutrient requirements across the lifespan, translating nutritional needs into food and menu choices, calculating body composition, calculating diets for specific health conditions, calculating basic enteral and parenteral nutrition formulas. PR: FOSM 2220.

FOSM 2260 Seminar in Dietary Management. 2 hrs.
This course will focus on the dietary management profession by looking at legal issues, professionalism, certification and licensing, preparation of resume, etc. PR: Special Approval. FOSM majors only.

FRENCH

FREN 1101. S-FSU Elementary French I. 3 hrs.
This introductory course covers pronunciation, oral comprehension and speaking, reading and written drill and composition and elements of grammar. Laboratory.

FREN 1102. S-FSU Elementary French II. 3 hrs.
Continuation of 1101; completing the basic grammatical principles. PR: FREN 1101 or one year of high school French.

FREN 1199. Special Topics in French 1-12 hours
Studies in special selected topics, to be determined by the instructor and approved by the chairperson. Credits earned will be applicable as free electives in degree and certificate programs.

FREN 2201. S-FSU Intermediate French I. 3 hrs.
A course designed to reinforce and increase knowledge of vocabulary and grammar. The course consists of extensive reading, review of grammar and continued attention to pronunciation and speaking. Engaging reading materials, such as short stories, are emphasized. Laboratory. PR: FREN 1102.

FREN 2202. S-FSU Intermediate French II. 3 hrs.
The continuation of FREN 2201. PR: 2201.

FREN 2220. French Special Topics II. 3 hrs.
A diversified study of the daily life and environment of present-day France and French-speaking peoples, placed in relation to the language. Emphasis is on a realistic, practical approach to language use. Work is individualized to fit the language-level and interest of the student.

FREN 3310. Special Topics in French. 3 hrs.
Supervised independent study reflecting the student's needs and interests.

FREN 3311. French Composition and Conversation I. 3 hrs.
This course covers writing, conversation and aural comprehension, with extensive use of audio-visual aids. Emphasis on practical proficiency, grammar, vocabulary building, and phonetics. PR: FREN 2202.

FREN 3312. French Composition and Conversation II. 3 hrs.
Parallel course to FREN 3311, with content emphasizing French civilization and culture. PR: FREN 2202 or equivalent. Note: 3311 and 3312 may be taken in any order.

FREN 3314. French Civilization and Culture. 3 hrs.
A study of France's basic historical development and significant contributions to civilization, its outstanding figures, its geography, traditions, contemporary social patterns, legends, songs, and influence on the United States. The instructional method emphasizes French conversation and extensive use of tapes, slides, and motion pictures. PR: FREN 2202.

FREN 3321. Contemporary Literature. 3 hrs.
This course focuses on outstanding writers of the twentieth century, such as Camus, Ionesco, Proust and Sartre. Emphasis is on reading comprehension. PR: FREN 2202.

FREN 4411. Advanced French Composition and Conversation. 3 hrs.
Writing Intensive
In this course, students will develop writing and conversational skills and aural comprehension on an advanced level, with extensive use of audio-visual aids. Emphasis is on attaining a high level of proficiency in grammar, vocabulary and pronunciation. This should be taken as late as possible in the sequence of courses. PR: FREN 3312.

FREN 4426. Main Currents of French Literature and Culture. 3 hrs.
A coordinated study of French literature and culture from a thematic and unitary standpoint. The main and unique currents of French contribution to world civilization are distinguished. Texts are taken from the Middle Ages to the Modern period, with selections from all genres. PR: FREN 2202.

FREN 4431. Methods and Materials in Teaching French. 3 hrs.
Study and practice in teaching French language and literature, grades 5-Adult.

GEOGRAPHY

GEOG 1199. Special Topics in Geography. 1-12 hrs.
Studies in special selected topics, to be determined by the instructor and approved by the chairperson. Credits earned will be applicable as free electives in degree and certificate programs.

GEOG 2210. S-FSU Introduction to Geography. 3 hrs.
An introduction to the physical and cultural elements of geography, with a study of major geographical regions of the world.

GEOG 3305. Economic Geography. 3 hrs.
A geographic study of the production, consumption and exchange of goods by people throughout the world. Consideration is also given to spatial variations and influences of the natural environment and culture.

GEOG 3315. Urban Geography. 3 hrs.
A study of urbanization process, including origin, growth, function, spatial patterns, structure and hierarchical arrangement of urban centers. Students will also examine urban problems, with special references to American cities.

GEOG 3330. Geography of North America. 3 hrs.
A course in regional economic geography, primarily of the United States and Canada, from the standpoint of man's activities in relation to his natural surroundings and resources.

GEOG 3340. Geography of Europe. 3 hrs.
A study of the important geographic concepts concerning man's activities in Europe and their importance to the United States and the rest of the world. A general overview will be made of Soviet European geography.

GEOG 3350. Geography of Latin America. 3 hrs.
This course is a regional study of South America, Central America, Mexico and the West Indies.

GEOG 3360. Geography of Africa. 3 hrs.
A regional survey of the continent, examining the great diversity that characterizes the area. Emphasis is placed on the complexity of its political pattern, natural resources, economic development and physical setting.

GEOG 3370. Geography of Asia. 3 hrs.
The study of Asia for the purpose of understanding the various Asian nations, their economic-geographic regions, major commodities, industry, commerce and major problems.

GEOG 3399. Maps and Diagrams. 3 hrs.
This course covers statistical data through different kinds of diagrams, such as bar, pie, ring, and block diagrams and graphs; the preparation and understanding of maps and introduction to the application of computers for maps and diagrams.

GEOLOGY

GEOL 1101. S-FSU Physical Geology. 4 hrs.
This course is an introductory study of the materials, structures and forces in the earth. Topics include weathering, hydrology, glaciers, earthquakes, landslides, and volcanoes; students will also examine the physical and chemical processes that contribute to the earth's changing form and shape. Both surface and internal processes are covered, with emphasis on the interaction between these processes, including the theory of plate tectonics. Three hours of lecture and two hours of lab per week. Lab includes field trips.

GEOL 1102. S-FSU Historical Geology. 4 hrs.
An introduction to the history of the earth from its origins to the present day. The evolution of the earth's oceans, ocean basins, atmosphere and life forms are also studied. The study of past life and continental position in geologic time is based on the interpretation of fossils, rocks, continental drift and plate tectonics. Three hours of lecture and two hours of lab per week. Lab includes field trips. PR: GEOL 1101.

GEOL 1103. S-FSU Introduction to Environmental Geology. 4 hrs.
This course explores the practical application of elementary geologic principles to everyday environmental problems. It also covers hazardous earth processes, including landslides, volcanoes, and earthquakes, as well as geologic aspects of human-induced problems such as mining, mineral production, subterranean waste disposal, and water and land use. Three hours of lecture and two hours of lab per week. Lab includes field trips. PR: GEOL 1101.

GEOL 1199. Special Topics in Geology. 1-12 hrs.
Studies in special selected topics, to be determined by the instructor and approved by the department chair. Credits earned will be applicable as free electives in degree and certificate programs.

GRAPHICS TECHNOLOGY

GRAP 1100. S-C&TC Graphic Communications Processes. 3 hrs.
This course is an introduction to the graphic arts and deals with the basic methods of placing visual elements on receiver materials. An investigation is made of relief, intaglio, planographic, porous, and electrostatic methods of printing. Students will also learn about continuous tone photography, basic bindery operations, and introductory microcomputer operation. Course activities include the use of introductory word processing and basic painting and drawing software.

GRAP 1125 Multimedia Concepts. 3 hrs.
Basic techniques of computer presentation and multimedia will be covered. Students will use introductory software for the creation of digital animation, motion, and multimedia. Activities include exercises using Microsoft PowerPoint, Apple QuickTime, and still and motion digital video capturing.

GRAP 1150 S-C&TC Computer Applications to Graphics. 3 hrs.
An assessment of the impact of "Intelligent Electronics" on the graphics industry and the development of computer applications to the solution of graphic-related situations. With an emphasis on the Apple Macintosh, there is a thorough coverage of microcomputer fundamentals, operating systems and computer programs, including the spreadsheet, database and various types of graphic software. The student becomes involved in both theoretical and hands-on experiences.

GRAP 1199 Special Topics in Graphic Communications. 1-4 hrs.
This course will provide an opportunity for students to further their study of principles and concepts in Graphic Communications and to apply their knowledge in a variety of applications both in the traditional classroom setting and in work/job related experiences. The class will be an individualized, arranged course, with learning outcomes determined by the instructor in consultation with the student. May be repeated up to 4 hours credit.

GRAP 2200 S-C&TC Introduction to Desktop Publishing. 3 hrs.
This course presents the basics in the make-up of copy with an emphasis on composition and typography. Students will produce tangible photo ready art and introductory electronic prepress images using the Apple Macintosh. Single and multiple color paste-up techniques, forms layout, cropping and scaling of photographs, and media conversion are among the activities that will be beneficial in upper level graphics classes as well as future employment endeavors. CR: GRAP 1150.

GRAP 2210. S-C&TC Graphics - Methods and Materials. 3 hrs.
This intermediate course further explores the tools, materials, and processes used in both the traditional and current digital methods of converting camera-ready images to print. Students will investigate introductory process camera, film assembly, press operation and bindery. Both theoretical knowledge and hands-on experience in the use of printing equipment will be employed. PR: GRAP 1100.

GRAP 2225. S-C&TC Basic Photography. 3 hrs.
A beginning course in the utilization of the hand-held camera. Emphasis is placed on the taking of pictures and the processing of black and white film. Topics covered include film and film processing, camera basics, camera formats, lens types, portrait photography and photographic ethics. PR: instructor's consent.

GRAP 2230. S-C&TC Layout and Design I. 3 hrs.
Printed materials will be analyzed in terms of design, effective use of type and color. Students will acquire knowledge of art specification and preparation for reproduction. Class time will be given to the design and production of original work. PR: GRAP 2200.

GRAP 2235. S-C&TC Layout and Design II. 3 hrs.
A continuation of GRAP 2230. The student continues work on thumbnail, rough and comprehensive layouts for presentation to the customer. PR: GRAP 2230.

GRAP 2245 Digital Photography. 3 hrs.
This course is designed to develop skills in pixel based photographic design and printing, as well as, to enhance basic photography skills primarily in film-less applications. Digital photography will be explored as it replaces traditional printers, inks, and papers, and darkroom applications will be made simpler and more powerful in the digital realm. This course will use advanced photography skills including creative

portraiture as well as commercial and industrial techniques. PR: GRAP 2225 and instructor's consent.

GRAP 2250. S-C&TC Graphics Practicum. 4 hrs.
Supervised on-the-job learning/work experience with a cooperating business or college in-house graphics production area. Students will gain experience in the graphics-related specialties of the selected practicum training center. PR GRAP 2210.

GRAP 2255 Internet Animation. 3 hrs.
Basic techniques of computer animation and presentation and use of storyboards will be covered. Students will use advanced animation software for creation of digital animation, motion, and multimedia. Laws of motion and image formation will be studied. PR: GRAP 1125

GRAP 2265. S-C&TC Estimating and Cost Analysis. 3 hrs.
This course covers production planning, scheduling, materials purchasing, and personnel management in print production operations. Accurate, orderly systems, including computer solutions are used to estimate costs, material, equipment and labor.

GRAP 2270. S-C&TC Screen Printing Techniques. 3 hrs.
An examination of screen process stencil systems, substrates, inks, framing methods and fixtures. Students will gain experience in the printing of flat objects, textiles, pressure sensitives, decals and cylindrical objects. Both single color and multicolor imaging will be covered.

GRAP 2275. Production (Offset/Screen Printing). 3 hrs.
This self-paced course provides practical experience in the production of department or school newsletters and other offset and screen-printed graphic products.

GRAP 2280. S-C&TC Electronic Publishing. 3 hrs.
This course is a continuation of GRAP 2200, specifically oriented towards the production of computer-based publishing using Apple Macintosh. Students will gain experience in more advanced electronic composition and pagination. PR: GRAP 2200.

GRAP 2285 Electronic Art. 3 hrs.
Students will use illustration software for the creation of high resolution commercial quality course projects. Students will use microcomputer workstations, flatbed scanners, electronic cameras, and image processing software for retouching, manipulating, and enhancing images. PR: GRAP 1125 and GRAP 2245

GRAP 2290. S-C&TC Electronic Art and Computer Imaging. 3 hrs.
Students will use illustration and painting software for the creation of high-resolution, commercial-quality course projects. The course will cover microcomputer workstations, flatbed scanners, electronic cameras and image processing software for use in retouching, manipulating and enhancing images. PR: GRAP 1150.

GRAP 2299 Special Topics in Graphic Communications. 1-4 hrs.
This course will provide an opportunity for students to further their study of principles and concepts in Graphic Communications and to apply their knowledge in a variety of applications both in the traditional classroom setting and in work/job related experiences. The class will be an individualized, arranged course, with learning outcomes determined by the instructor in consultation with the student. May be repeated up to 4 hours credit.

GRAP 3305. Production (Electronic Publishing/Imaging). 3 hrs.
Students will create digital media, newsletters, or other graphic products developed by departments or schools within the University. Baccalaureate majors only.

GRAP 3310. Advanced Photography. 3 hrs.
A continuation of GRAP 2225, covering such areas as advanced black and white work, large format camera work and color photography. PR: GRAP 2225.

GRAP 4400. Computer Animation and Multimedia. 3 hrs.
This course covers basic techniques of computer animation, presentation software for creation of digital animation, motion and multimedia. Activities include exercises using QuickTime™, HyperCard™, and still and motion digital captures of television video. PR: GRAP 1150.

GRAP 4410. Special Topics - Graphics. 3 hrs. Writing Intensive
This self-paced course is an opportunity to investigate and produce a senior project in a field not included in the regular listing of graphic communications courses, or in greater depth in an area currently offered. Baccalaureate majors only. Must have permission.

HEALTH CAREERS

HLCA 1100 S-C&TC Medical Terminology. 3 hrs.
This course is a study of the structure of medical words and terms. Emphasis is placed on spelling and defining commonly used prefixes, suffixes, root words, and their combining forms. Anatomy and physiology terms as they relate to the root words, combining forms, prefixes, and suffixes are stressed. Terminology and medical abbreviations relating to several allied health occupations acquaints students with an overview of the medical language. This course is offered as an online course as well as the traditional classroom.

HLCA 1101 Introduction to Health Careers Programs. 1 hr.
This course is designed introduce students to the health careers degree and certificate programs offered at FSC&TC. A case study approach will be used to examine various fields in health careers. This course will cover requirements and prerequisites, necessary skills and qualities for successful program completion, and provide individualized exposure to selected occupations. This course is offered on a credit/non-credit basis and can be used as an elective.

HLCA 1102 Pathophysiology of Diseases. 3 hrs.
Study of the disease process, terminology and association with the body structure. PR: HCLA 1100 and BIOL 1170

HLCA 1104 Physics for Health Careers 3 hrs.
This course is designed to introduce pre-physical therapist assistant and pre-radiology students to basic physics concepts including motion, forces, energy, heat, sound, electricity, light, and radioactivity. The class will include on-line activities and in-class activities.

HLCA 1105 Phlebotomy Theory. 1 hr
The course is designed to provide the student with an understanding of professionalism, credentialing, the importance of consent and confidentiality, safety issues, infection control and the overall structure of a typical hospital. Students will learn basic techniques of venipuncture and capillary puncture through lecture videos, class activities and demonstration. PR: Permission of instructor.

HLCA 2205 Phlebotomy Practicum. 1 hr.
This course is designed to provide the student with practical experience in blood drawing techniques. Students will spend about 6 to 8 hours in student laboratories practicing phlebotomy techniques on model arms and on volunteers prior to being placed in clinical facilities. Students will be expected to obtain 100 venipunctures and 10 capillary sticks and must schedule sufficient time to accomplish this at the clinical facility. Hours at clinical facilities will vary throughout the day. PR: HLCA 1105.

HEALTH EDUCATION

HLTA 1100. S-FSU Personal Health. 2 hrs.
This course examines the meaning and significance of the physical, mental, social and environmental factors of health and safety as related to the individual and to society. Students will focus on important phases of related national problems, with an emphasis on college students and their current needs.

HLTA 1150. S-FSU Introduction to Health . 3 hrs.
This course is an in-depth study of several content areas relating to health, contemporary health problems and reciprocal relationships involving man, disease and the environment. Students will explore the significance of the physical, mental, social, and environmental factors of health and safety as related to the individual and to society.

HLTA 1199. Special Topics in Health. 1-12 hrs.
Special topics will be studied, to be determined by the instructor and approved by the School's chairman. Credits earned will be applicable as free electives in degree and certificate programs.

HLTA 2200. Foundations of Health Education. 3 hrs.
Examines the historical, philosophical, sociological and scientific foundations of health education as it relates to the present educational system and a changing society.

HLTA 2202. Community and Environmental Health. 3 hrs.
The course presents the philosophy, organization, identification and function of federal, state, and local public health agencies, and their role in dealing with community health, environmental health, and safety problems.

HLTA 3310. School Health and Safety. 3 hrs.
Investigation of comprehensive approaches to the development of school health and safety programs, based upon contemporary needs and problems.

HLTA 3325. Organizational and Planning Strategies in Health Education. 3 hrs.
The purpose of this course is to develop strategies for organizing and planning a health education program. Emphasis is placed on pre K-adult curriculum development and design of teaching units.

HLTA 3370. Contemporary and Drug Behavior Issues. 3 hrs.
Writing Intensive
This course covers the identification, analysis, and evaluation of the most critical health problems confronting our society, including drug abuse and addiction.

HLTA 4400. Health Education for the Elementary School. 3 hrs.
This course addresses specific areas of health relating to the needs of elementary school children.

HLTA 4410. Seminar in Public Health Education. 3 hrs.
A presentation of the historical and philosophical development of public health agencies, including governmental aspects, legal bases, organizational principles, personnel factors and public relations. Periodic field trips are included during the second half of the semester.

HLTA 4415. Human Sexuality. 3 hrs.
The student will learn to identify the trends, issues and content necessary to analyze and develop methods and materials in sex education.

HLTA 4450. Field Practicum in Public Health. 4 hrs.
Provides experience in field practice in public health for one semester under supervision of public health professionals. Pass/Fail only.

HEALTH INFORMATION TECHNOLOGY

HLIN 1100 Fundamentals of Health Information. 4 hrs.
This course serves as an introduction to the function and duties of health information professional. The national and state professional organizations and orientation to the study of the basic health record in all health care settings will be covered. The student will be introduced to hospital and governmental structure and medical staff organization. Majors Only

HLIN 1101 Fundamentals of Health Information Lab. 1 hr.
This laboratory course serves to enhance the didactics that are covered in the lecture for Fundamentals of Health Information. The Health Information Technology student will be expected to complete a series of hands-on projects that are compatible with the information from the classroom. Majors Only

HLIN 1102 Health Information Community Service. 1 hr.
This course is an introduction to the Health Information profession through community service. Each student is expected to complete thirty (30) hours of volunteer work in a health information environment. Placement will depend on the needs of the facilities at the time. Majors Only

HLIN 1105 Computers in Health Care. 3 hrs.
This course will introduce the Health Information Technology student to computers in the health care arena. Spring Semester. Majors Only.

HLIN 1109 Health Care Statistics. 3 hrs.
Hospital statistics is a course in which the methods of computing statistics of health care institutions and storage areas for this material will be discussed. Basic statistics applicable in health care institutions will be introduced. The course will include the study of vital and public health statistics, review of simple arithmetic principles as warranted, in depth study of hospital statistics; sources, definitions, collection, reporting, presentation and analysis of data, sources and uses of health data in the United States. Applicable statistical software will be utilized. Spring Semester. Majors Only.

HLIN 1110 Legal and Ethical Aspects of Health Information. 3 hrs.
This course is designed to instruct the student in the basic legal principles, release of confidential health information, court procedures and conduct, and association with legal authorities. HIPAA rules and regulations will be discussed. Legal and ethical issues of the profession will be covered as well as ethical issues in the health care field. Fall Semester. Majors Only.

HLIN 1115 Alternate Care Settings. 2 hrs.
Alternative Care Settings will expose the HIT student to a variety of non-traditional settings for health information management. The students will be expected to rotate through various types of settings (ie, psychiatric facility, rehabilitation hospital, nursing home, home health agency, hospice, prison system, health clinic and a physicians' office or clinic.) Placement depends on the availability of a particular facility. The student will be required to be at the clinical affiliate a total of 60 hours. This course will be offered during the first summer session. Majors Only.

HLIN 2200 Interpretation of Diagnostic Data. 3 hrs.
This course is designed to introduce the health information specialist to the relationship between diseases, laboratory tests and drugs within the health record. This knowledge base will be useful in optimizing reimbursement. Fall Semester. Majors Only.

HLIN 2202 Reimbursement Systems. 2 hrs.
This course will examine reimbursement methodologies for various health care entities. Students will learn how to compare claims submitted to third party payers with actual reimbursement received. Spring Semester. Majors Only.

HLIN 2203 Quality Assessment/ Utilization Review. 3 hrs.
This course is designed to provide the student with the theoretical knowledge and technical skills relative to the operation of a quality assessment and utilization management program within a health care facility. The influence of government regulations and accrediting agency standards will be introduced. Fall Semester. Majors Only.

HLIN 2205 Classification Systems I - ICD. 5 hrs.
This course is designed to emphasize the history and development of disease classifications. The student will spend time learning the procedures of various systems. Application of the current classification system will be emphasized. Prepared software will be used to enhance

the understanding of the current classification system. Financial implications of the classification system will be discussed. Four hour lecture, two hours laboratory per week. Fall Semester. Majors Only.

HLIN 2206 Clinical Practicum I. 4 hrs.
Students in this course will analyze, number, file, retrieve, transcribe, and prepare statistical reports. The student will be working with coding and abstracting of disease/procedure entities. This clinical practicum will take place in a health care facility. Students will be expected to be at a clinical site 120 hours. Majors Only.

HLIN 2207 Health Information Supervision. 3 hrs.
This course is designed to introduce management functions required to direct a health information department. This will include procedure development, job descriptions, research for a proposal, department layout as well as other areas of management. Current standards of health care are presented; JCAHO and State Licensure. Spring Semester. Majors Only.

HLIN 2208 Clinical Practicum II. 4 hrs.
This is a four credit, three consecutive week course requiring 40 hours of clinical practicum per week. Students will be expected to be at a clinical site 120 hours. The student will be provided opportunity to practice all skills acquired thus far in the two-year program. Majors Only.

HLIN 2209 Classification Systems II - CPT. 5 hrs.
This course is designed to introduce the student to the current use of CPT-Coding classification. Various situations for this use will be utilized including: physician's office, outpatient, and ambulatory care settings. Spring Semester. Majors Only.

HLIN 2210 Health Information Technology Capstone. 2 hrs.
This course is designed to incorporate all HIT program coursework into an integrated course. The student's didactic knowledge will be blended with their clinical experiences. Guest lecturers, field trips, computer and CD assignments will be used as a teaching tool. This course will also focus on the health information profession by looking at legal issues, professionalism, certification, preparation of a resume, etc. Majors Only

HISTORY

HIST 1107. S-FSU United States History I. 3 hrs.
Examines the major developments in American history, from pre-Columbian native American cultures to the end of the Civil War, with emphasis on the Colonial, Revolutionary, Early Republic and Civil War eras.

HIST 1108. S-FSU United States History II. 3 hrs.
Examines the major developments in American history, from Reconstruction to the present with emphasis on the political, social, cultural, economic and diplomatic forces that contributed to America's emergence as the world's leading industrial democracy.

HIST 2211. S-FSU World Civilizations I. 3 hrs.
An intermediate-level survey of worldwide historical developments, emphasizing major civilizations in pre-historic times, ancient empires and the early Middle Ages. Recommended for sophomores and well-prepared freshmen.

HIST 2212. S-FSU World Civilizations II. 3 hrs.
An intermediate-level survey of worldwide historical developments, emphasizing major civilizations from the Middle Ages to the social, political, and industrial revolutions of the eighteenth century. Recommended for sophomores and well-prepared freshmen.

HIST 2213. S-FSU World Civilizations III. 3 hrs.
An intermediate-level survey of worldwide historical developments from the French Revolution of 1789 to the present era, emphasizing major civilizations and the modern growth of global interdependence. Recommended for sophomores and well-prepared freshmen.

HIST 3301. History of Intelligence and National Security. 3 hrs.
An intermediate-level course on the origins, developmental milestones, important events and policies that shaped the United States' intelligence infrastructure. There will be discussion of national security policy and actions that have been implemented, and analysis of their effectiveness. This course will develop skills in research, editing, writing and presentation. Students will be required to research assigned topics, collect documentation, edit references, write an analysis of a proposed course of action, and support a recommended course of action in an oral briefing with graphic slides. The format of this course is designed to acquaint the student to the time-sensitive and volatile nature of collection, analysis, production and dissemination of intelligence information.

HIST 3302. West Virginia. 3 hrs.
This course covers West Virginia history, government and geography from the first settlements to the present time. PR: History 1107, 1108.

HIST 3310. Diplomatic and Military History of the United States. 3 hrs.
Addresses the relations between the United States and other countries, and the development of basic American foreign policies from the colonial background to the super-power status of the present day. Students will pay special attention to war and its foreign-policy consequences. PR: History 1107, 1108.

HIST 3315. Colonial America. 3 hrs.
Covers the American colonies from their beginnings to the end of the Revolutionary War. PR: History 1107.

HIST 3316. The Early Republic. 3 hrs.
Covers United States history from the Revolutionary War to the close of the Mexican War. PR: History 1107.

HIST 3317. Civil War and Reconstruction. 3 hrs.
This course examines the myriad causes of the Civil War, the social, economic, and political changes in the North and the South during the war, highlights key battles and campaigns, and explores the complex and difficult reunification and reconstruction of the Union and the defeated Confederacy following the war. PR: History 1107.

HIST 3318. The Gilded Age to the Great Crash. 3 hrs.
A history of the U.S. from 1877 to the attack on Pearl Harbor. Major topics include the Industrial Revolution, the labor movement, the New South, the Old West and Native Americans, the spoils system, populism, progressivism, World War I and the League of Nations, the Roaring Twenties, the Great Depression, the New Deal and the diplomatic crises of the inter-war years. PR: History 1108.

HIST 3319. Recent America Since 1941. 3 hrs.
Examines America's emergence as the leading world power. Topics to be explored will include World War II at home and overseas, the origins, rise and fall of the Cold War, the rise and fall of the liberal consensus, civil rights, feminism, Vietnam War and the anti-war movement and the new conservatism of the post-Nixon years. PR: History 1108.

HIST 3333. History of the American Woman. 3 hrs.
An examination of women's changing roles and contributions to American society. PR: History 1107 or 1108.

HIST 3344. African-American History and Culture. 3 hrs.
A survey of African-American experience in the United States, from the African cultural background and slavery through the present-day urban experience. PR: 1107 or 1108.

HIST 3351. History of England. 3 hrs.
This course covers England's history from Roman rule to the present day. PR: 2211 or 2212 or 2213.

HIST 3352. History of Russia. 3 hrs.
Development of the Russian people from the time of their appearance as a national entity, through the tsarist, imperial, revolutionary and Soviet eras to the present. PR: 2211 or 2212 or 2213.

HIST 4405. History of Africa. 3 hrs.
Survey of African history from prehistory to the present, with emphasis on the medieval, colonial, and modern periods. PR: 2211 or 2212 or 2213.

HIST 4410. History of Asia. 3 hrs.
An intensive survey of Asian cultural developments from prehistory to the present, with special emphasis on the impact of the West on Asian nations. PR: 2211 or 2212 or 2213.

HIST 4420. History of Latin America. 3 hrs.
Topics include conquest and colonial developments in South America, from Columbus to Latin America's role in contemporary perspectives. PR: 2212 or 2213.

HIST 4425. Medieval Europe. 3 hrs.
This course covers formative development in intellectual, social, economic, and political history of medieval Europe, beginning with the fall of Rome. PR: 2211 or 2212.

HIST 4431. Recent Europe. 3 hrs.
A study of problems of readjustment in the 20th century: the League of Nations, fascism and Communism, the World Wars, the Cold War, and the European community. Spring semester only. PR: 2212 or 2213.

HIST 4455. Revolutions in History. 3 hrs.
A study of revolutionary thought and action as a force in world history since ancient times. Major topics include the American and French Revolutions of the eighteenth century, the Chinese and Russian Revolutions of the early twentieth century, and a sampling of more recent revolutionary movements in representative regions of the world. PR: 2211 or 2212 or 2213.

HIST 4475. Philosophy of History. 3 hrs.
A survey of the philosophical systems, both speculative and analytical, that have been advanced to evaluate humanity's historical experience. Credit in either philosophy or history. PR: 2211 or 2212 or 2213 or Philosophy 2200.

HIST 4498. Senior Seminar. 3 hrs.
An identification, review, and historically-oriented synthesis of major concepts in the fields of geography, history, political science, psychology, sociology and economics. Required of history and Social Studies Comprehensive Education majors, but open to all. PR for history majors: senior standing. Fall semester only.

HIST 4499. Selected Topics. 3 hrs.
Advanced study of topics specially selected by members of the history faculty according to student demand. No more than two Special Topics courses may count toward a major in history.

HUMAN SERVICES

HUSV 1100 Freshman Seminar. 3 hrs.
This course is designed to acquaint entering freshmen with various academic, economic, and social aspects of college life and to teach students the skills necessary to succeed in college. In addition, this course would focus on building genuine relationships with people on campus by providing opportunities to engage in various college activities and to work with a Freshman Seminar facilitator, peer leaders and mentors.

HUSV 1103 Community Service Learning. 1 hr.
Community Service Learning provides opportunities for students to perform meaningful service to the community while engaging in conscious reflection and critical analysis activities which meet service learning objectives. The course is based upon an experiential learning format which includes the college, the student, and the community. Students may complete a maximum of 3 credit hours of service learning toward graduation requirements. PR: instructor's consent.

HUSV 1199 Special Topics in Human Services. 1-12 hrs.
Students in special selected topics. The topic to be studied will be determined by the instructor and approved by the School's chairman. Credits earned will be applicable as free electives in degree and certificate programs.

INFORMATION SYSTEMS

INFO 1100. S-C&TC Computer Concepts and Applications. 3 hrs.
This course will provide students with a survey of fundamental computing concepts and applications, and will offer a useful foundation upon which students can develop skills necessary to become effective users of information systems. The primary focus of this course will be on productivity software applications, including word processing, spreadsheet, database, the Internet and presentation software. This course fulfills three hours of the First Year Experience. (Competency may be demonstrated.)

INFO 2200. S-FSU Fundamentals of Information Systems. 3 hrs.
The course is an introduction to basic business information systems, including networking, systems analysis and design. PR: INFO 1100.

INFO 2205. S-C&TC Information Technology: Hardware and Operating Systems. 3 hrs.
This course provides the hardware and operating system concepts necessary for system design. System architecture and operating systems are considered for single- and multiple-user computer systems. PR: INFO 2200.

INFO 2206 S-C&TC Advanced Hardware and Operating Systems. 3 hrs.
This course is a continuation of INFO 2205, Information Technology - Hardware and Operating Systems. The course content covers advanced hardware and operating system troubleshooting as well as computer configuration. PR: INFO 2205

INFO 2210. S-C&TC Applied Business Programming. 3 hrs.
This course fosters an understanding of the capabilities and limitations encountered in programming information processing applications. The student will independently write programs which create, update and process disk files. General business programming concepts are emphasized, rather than computer science fundamentals. This course may not be substituted for Computer Science 1100, 1101, or 1102, and is not open to students with credit in COMP 1108. PR: MATH 1107, INFO 2205.

INFO 2220. S-C&TC Spreadsheet Design. 3 hrs.
This course is designed to introduce spreadsheet modeling and design. Through hands-on computer work, the student will become familiar with a spreadsheet application package. The course will stress good design techniques as well as spreadsheet techniques and model building. Completion of this course will provide students with the skills needed to attain Microsoft Office Specialist Certification in Excel.

INFO 2225. S-C&TC Fundamentals of Web Design. 3 hrs.
Introduction to Web Design course focusing on the overall web site production processes with particular emphasis on design elements involving layout, navigation, and interactivity. PR: INFO 1100.

INFO 2235. S-FSU Microcomputer Applications in Business. 3 hrs.
This course will provide the opportunity to develop and use basic decision support systems. A problem-solving approach is used to introduce students to the modern business decision-making process. The emphasis is on making business decisions by using and customizing off-the-shelf software. PR: INFO 1100.

INFO 2242 S-C&TC Professional Internship and Portfolio Development. 3 hrs.

The purpose of this course is to allow students to bring business topics into focus by using all their collected business knowledge. This will be accomplished through completion of a portfolio that will demonstrate to prospective employers the student's career preparation. The student will also be required to complete a professional internship in the work place. The importance of career and goal planning will be emphasized. A total of 140 hours of supervised work will be required. PR: Instructor Consent.

INFO 2250. S-C&TC Networking Fundamentals. 3 hrs.

This course provides an in-depth knowledge of data communications and networking requirements, including networking and telecommunications technologies, hardware and software. Students will explore the analysis and design of networking applications in organizations. Management of telecommunications networks and evaluation of connectivity options are also covered. Students learn to evaluate, select and implement different communication options within an organization. The course consists of two hours of lecture and two hours of lab per week. PR: INFO 1100.

INFO 2251. S-C&TC Router Theory and Router Technologies. 3 hrs.

This course examines the theory and technology of routers, including router programming, configuration and protocols. The course consists of two hours of lecture and two hours of lab per week. PR: INFO 2250.

INFO 2252. S-C&TC Advanced Routing and Switching. 3 hrs.

This course covers advanced routing and switching concepts. It is a continuation of INFO 2251. The course consists of two hours of lecture and two hours of lab per week. PR: INFO 2251.

INFO 2253. S-C&TC Project-Based Learning. 3 hrs.

This course covers advanced Wide Area Network technologies. It is a continuation of INFO 2252. The course consists of two hours of lecture and two hours of lab per week. PR: INFO 2252

INFO 2255 S-C&TC Fundamentals of UNIX. 3 hrs.

Fundamentals of UNIX sponsored by Sun Microsystems teaches students how to use UNIX operating system commands and, in the hands-on-exercises, basic Sun Microsystems' Solaris™ operating environment commands, and introduces students to the common Desktop Environment (CDE - graphical interface between different environments). The class is intended for new users of UNIX. Students will learn fundamental command-line features of the Solaris environment including file system navigation, file permissions, the vi text editor, command shells and basic network use. CDE features include Standard Desktop Tools, Text Editor, printing and mail. PR: INFO 2250.

INFO 3310. Systems Analysis and Design. 3 hrs.

Students in this course are introduced to the analysis and design of computerized systems for handling the data processing requirements of a typical business. Topics discussed include information flow, file design, systems integration, system security and controls. Students are required to write portions of the system specifications for a model business application. PR: INFO 3339.

INFO 3339. Programming, Data and File Structures. 4 hrs.

This course provides an understanding of data, files and business reports. It requires students to plan, write and process business programs which stress data and file manipulation. The course also includes the principles of effective business report design. PR/CR: INFO 2205.

INFO 3340. Advanced Application Development. 4 hrs.

This is an advanced course in application programming. This course includes table handling, sorting, external report generation, file updating and video forms design, and object-oriented programming. PR: Grade of C or better in INFO 3339.

INFO 3350. Internship in Information Systems. 3 hrs.

This internship course is designed as a learning experience which requires the integration of information systems theory with actual job experience in an information systems department. The student must be enrolled in the four-year information systems program. The employer is responsible for evaluating and reporting the development of the student. PR: INFO 3340 and junior status.

INFO 3373. Management/Human Resources Information Systems. 3 hrs.

This course uses current technology to examine business management, control, and decision-making, with emphasis on management and human resources. Focus areas include application, performance, system design, planning, development, implementation and evaluating existing software. PR: INFO 2235, MGMT 2209, 3308.

INFO 4420. Database Design and Implementation. 3 hrs.

This course covers information systems design and implementation within a database management system environment. Students will demonstrate their mastery of the design process acquired in earlier courses by designing and constructing a physical system, using database software to implement the logical design. The class will use Microsoft Access or Oracle, when available, for logical database design. Data models and modeling tools, CASE tools, code/application generation and client-server planning are among the topics to be covered. PR: INFO 3340.

INFO 4430. Special Topics in Information Systems. 3 hrs.

Current topics of interest in information systems, to be selected by the instructor and approved by the department coordinator and Dean. Typical topics include application design using Visual Basic or client-server program development using Oracle. PR: INFO 3340.

INTERPRETER TRAINING PROGRAM

ITTP 2200 American Sign Language V. 3 hrs.

The primary emphasis of the materials is on language in context, featuring key vocabulary and expressions. Information coordinates with interactive video activities to check comprehension, review signs, and focus on specific grammar features. PR: AMSL 1114.

ITTP 2201 Sign-to-Voice Interpreting I. 3 hrs.

Introduction to the profession of interpreting, including review of ethical role, job opportunities, using all the "tools of the trade." Field trip included to interpreter job site to interview Deaf and interpreter. Videotapes used, various related association discussed. Extensive practice sessions videotaped and analyzed for improvement. Concentration on listening process. Strategies discuss predicating sentence flow.

ITTP 2202 Voice-to-Sign Interpreting I. 3 hrs.

Introductory exercises, showing the use of example, the progression from Signing to Interpreting. Signs learned will be used in the interpreting setting. Lab activities will be included during class session.

ITTP 2203 Simultaneous Interpreting. 3 hrs.

Students will practice consecutive interpreting into both languages, initially dialogue interpreting and interpreting of short passages, focusing on short-term memory, and, later, longer consecutive passages into one target language at a time. Note-taking will be gradually introduced. Topics will include hospitality, social welfare, housing, education, paralegal and medical.

ITTP 2204 American Sign Language VI. 3 hrs.

This course continues with the material on language in context featuring key vocabulary and expression. Information coordinates with interactive video activities to check comprehension, review signs, and focus on specific grammar features. PR: ITTP 2200.

ITTP 2205 Sign-to-Voice Interpreting II. 3 hrs.
Videotaped sessions with Deaf constructive comments. Interpreting practice sessions, increased use of proper cross-cultural communications. Use of elements to include attention to the source and the target language. Certification procedures practiced and analyzed from current videotaped information. Preparation for certification discussed. PR: ITTP 2201.

ITTP 2206 Voice-to-Sign Interpreting II. 3 hrs.
This course incorporates intermediate voice interpreting skills which students will utilize to practice, with increasing fluency, expressive interpreting. Students must demonstrate all sign vocabularies and be able to Fingerspell clearly. Lab activities will be during class session. PR: ITTP 2202.

ITTP 2207 Consecutive Interpreting. 3 hrs.
Students will learn how to interpret consecutively as speaker star. Use of videotape feedback. Deaf evaluation and feedback used. Voicing for Deaf, using various situations. Ability to use various modes of communication styles. Lab activities will be during class session. PR: ITTP 2203.

ITTP 2208 Legal & Ethical Aspects of Interpreting. 3 hrs.
How to handle oneself in business settings. To be able to negotiate the elements basic to the interpretation process. How to deal with co-interpreters and team interpreting. Negotiating the circumstances of the work environment and signing system to be used. Discussion of need for code of ethics to guide decisions. Prepare for RID and National Interpreters Certificate (NIC) exams in writing and interpreting.

ITTP 2209 Interpreting Private as Practice. 1 hr.
Hours will be spent in the field during the week to follow class discussion of events. Class discussion will include ethical issues, team interpreting, room setup, understanding the speaker and other elements related to the interpretation experience. Internship students will have to apply to agencies one semester before internship. Students will spend a minimum of 30 hours during the semester to fulfill the obligation of this practicum. PR: ITTP 2201.

INTERDISCIPLINARY STUDIES

INTR 1100. S-C&TC Race, Class and Gender. 3 hrs.
An introductory multicultural course which explores race, class, gender, ethnicity and the dynamics of their interrelationships in American society. Themes include personal identity, power and change. Students will examine interdisciplinary methodologies in the humanities and the social sciences, including historic, psychological, sociological, economic, educational, and artistic approaches.

INTR 1120. S-FSU Experiencing the Arts. 3 hrs.
Introduction to appreciation of the arts through lectures/demonstrations by teachers in the visual arts, music and theatre. Organized thematically, the course offers an opportunity to explore relationships between various artistic media, as well as their relationships with other disciplines. The course will also consider the circumstances which have shaped these relationships and the ways in which contemporary culture conditions how we respond to and interpret art and performance today.

INTR 2201. S-FSU Introduction to Women's Studies. 3 hrs.
This is an interdisciplinary course which will focus on a variety of topics in women's studies, such as gender and science, the body, reproductive technologies, public policy and feminist theory. Class discussions will examine positions among feminist ethicists on the implications of gender definition and explore the construction of gender in our society.

INTR 2250 S-C&TC Interdisciplinary Practicum. 3 hrs.
This course will provide opportunities to observe and interact in appropriate work environments at specific sites in each of the core disciplines: Aviation, Criminal Justice, EMS, and Safety. Sites to be included will be chosen by the program coordinators of the various disciplines, and may vary from time to time. PR: Major in Homeland Security. Required core class for the Homeland Security Degree Program.

INTR 2280. S-C&TC Empowering Leadership. 3 hrs.
The purpose of this course is to help prepare students to assume increasingly responsible leadership roles of empowerment in their personal, professional and academic lives. This interdisciplinary, student-centered course focuses not only on significant theories of empowering leadership and their applicability to leaders of the past and present, but also includes substantial hands-on, experiential learning opportunities in which students practice empowering leadership. PR: A score of 18 or above on the ACT English test or successful completion of English 0097.

INTR 2281. S-C&TC Great Ideas of Leaders. 3 hrs.
This interdisciplinary humanities course explores some of the most significant ideas of leaders and the questions they have posed to humankind. Topics include the intersection of leadership with the heroic myth, the nature of government, justice, wealth, culture, the mind, poetics, ethics, good and evil, power and authority, concepts of nature, issues of faith and values-based leadership. PR: INTR 2280.

INTR 4401. Capstone Seminar in Forensic Science. 3 hrs.
Designed to help students synthesize and apply, in a forensic science context, the approaches, knowledge and skills acquired in criminal justice, biology, chemistry, mathematics and physics courses. The course structure consists of student-driven case studies and discussions from recent literature, student presentations describing internship experiences and an explicit formal introduction to established professional and laboratory practices in forensic sciences, including ethics. PR: BIOL 3390 and CHEM 2215 and CRJU 3300.

INTR 4402. Seminar in Women's Studies. 3 hrs.
This is a capstone course designed as an interdisciplinary overview of topics that may range from a general survey of gender theories in a variety of disciplines to a more focused interdisciplinary theoretical approach, such as postmodernism and feminism, historical explanation of gender roles in western culture and the current debate among feminist ethicists. Discussions will include the works of salient writers such as Simone de Beauvoir. PR: INTR 2210.

JOURNALISM

JOUR 1199. Special Topics in Journalism. 1-3 hrs.
Staff participation on The Columns student newspaper, The Mound yearbook, Whetstone literary magazine or as a photographer for any student publication.

JOUR 2240. Reporting. 3 hrs.
Comprehensive study of fundamental writing forms, styles and mechanics for both print and broadcast media, including school publications. This course gives students practical experience in basic writing styles used in scholastic, collegiate and professional mass media. Valuable as a test of writing ability and for making students into more discerning media consumers. Open to second-semester freshmen and above, to first-semester freshmen with previous high school journalism experience, or to those exempt from ENGL 1104. Three hours of lab required. (Enroll in both Journalism 2240 and Journalism L240.) PR: ENGL 1104, 1108.

JOUR 2270. Communications in Society. 3 hrs. Writing Intensive
Survey of mass media in a democratic society and an introduction to mass media career opportunities and preparation. This course may be of interest to those undecided about their careers, especially students with scholastic journalism experience. Offered online during fall and spring semesters, and fulfills the Writing Intensive Course requirement.

JOUR 2280. History of American Journalism. 3 hrs.
Writing Intensive
This course offers a comprehensive chronological presentation of the development of American mass media, by showing the relationship

of the past to the events of today and delineating their impact on the American way of life. Examines the American press from the seventeenth century to date and freedom of press and its present implications. Offered online during fall and spring semesters, and fulfills the Writing Intensive Course requirement.

JOUR 3312. The Publications Process. 3 hrs.
Writing Intensive
Deals with the practical concerns typical to production of publications; may be of interest particularly to teachers who may supervise a student newspaper, yearbook, magazine or handbook. Students will be encouraged to work on various college publications, since hands-on knowledge of the skills necessary for publication production will be emphasized. Course topics include editing, proofreading, layout, typography, photo selection, graphic design, desktop processing and staff assessment and supervision.
PR: ENGL 1104, 1108.

JOUR 3334. News Photography. 3 hrs.
Basic camera and developing techniques during four hours of lecture-laboratory time per week. Introduces photography as a means of documentation and a medium of expression. Camera, film supply, equipment and chemicals required. Taught with cooperation of Department of Technology. Limited enrollment.

JOUR 3341. Journalism Practice. 3 hrs.
This is the capstone course of the journalism major and minor programs. In this course, students are required to perform on-the-job duties during a 100-hour internship, gaining experience in a particular area of journalism, in accordance with the stated goals of the journalism program. Assessment of student achievement of these goals will occur through both a submitted portfolio and the employer's report on the quality of the intern's work. PR: JOUR 2240, 2270, 2280, 3312 and instructor's consent.

LABORATORY ASSISTANT

LABA 1106 Basic Lab Skills. 2 hrs.
This is a lecture course in the theory of basic laboratory skills and concepts and safety techniques. The course is designed to provide the student with entry level knowledge needed to pursue a career path as a laboratory assistant in a research or health care facility, including medical, college and industrial settings. Must have successfully completed or be currently enrolled in LABA 1107. Two hours lecture per week

LABA 1107 Basic Lab Skills. 1 hr.
The course is designed to provide the student with entry level skills needed to pursue a career path as a laboratory assistant. The course is intended to assist the student with mastering lab skills needed in a research or health care facility, including hospital, college, and industrial settings. Must have successfully completed or be currently enrolled in LABA 1106. 3 hrs. of laboratory per week.

LABA 2206 Advanced Lab Skills Theory. 3 hrs.
This course is designed to provide the student with knowledge in advanced laboratory skills in preparation for employment or further education. Ethical considerations of patient and client information and customer service will be explored. Patient specimen collection and processing, as well as coding and reporting of results and quality assurance and quality control of work completed will be stressed. Must have successfully completed or be currently enrolled in LABA 2207, 3 hrs. lecture per week. PR: Successful completion of LABA 1106 and 1107.

LABA 2207 Advanced Lab Skills . 1 hr.
This course is designed to provide the student with advanced laboratory experience and training in preparation for employment or further education. Ethical considerations of patient and client information and customer service will be explored. Patient specimen collection and processing, as well as coding and reporting of results and quality assurance and quality control of work completed will be stressed. Three hours of laboratory per week. CR: LABA 2206.

LIBRARY SCIENCE

LIBS 1105. Introduction to Library Science. 3 hrs.
This course is an introduction to the study of Library Science, and is designed to provide students with a firm foundation of the history, philosophy, theory, professional literature, issues and ethics related to the field. Students will explore the different kinds of libraries and their functions in society, as well as modern issues in librarianship. Students will also become familiar with the basic tools of librarianship. Ethical issues related to the field will also be examined and addressed.

LIBS 1199. Special Topics in Librarianship. 1-12 hrs.
Current topics of interest in library science, to be selected by the instructor and approved by the department coordinator and Dean.

LIBS 2200. Reference and Bibliography. 3 hrs.
An introduction to basic reference sources, including their analysis, use, evaluation and selection. Covers both printed and computer-based sources of information. Emphasizes practical reference skills.

LIBS 2209. Library Materials for Children. 3 hrs.
A study of the philosophy and principles used in evaluating and selecting materials to enhance the curriculum for younger children, and designing educational lesson plans with library resources for children from birth through 11 years of age. Different types of library resources for children will be identified, and their roles in libraries and education explored. Spring and summer semesters only.

LIBS 2210. Library Materials for Adolescents. 3 hrs.
A study of the philosophy and principles used in selecting materials and in designing library-media programs for young people. A wide variety of material is studied with an emphasis on collection development for young adults. Fall semester only.

LIBS 3302. Cataloging and Classification. 3 hrs.
A hands-on course which covers descriptive cataloging, subject analysis and the creation of call numbers. Students will learn basic catalog management techniques, as well as technical processing skills. Fall semester only. PR: LIBS 1105.

LIBS 3303. Technologies and the Library. 3 hrs.
Examines the functions and management of technologies in the library. Covers characteristics of multimedia materials and the basic criteria for the selection of materials and equipment. Focuses on planning for technologies in the library including funding, system selection, management, student use, and current issues. Spring semester only. PR: LIBS 1105.

LIBS 3304. Organization and Administration. 3 hrs.
A study of the philosophies, objectives and methodologies involved in the operation of libraries. Emphasizes policies, guidelines and standards, budget, staff, equipment and facilities, public relations, reports and statistics.
Fall semester only. PR: LIBS 1105.

LIBS 3305. Libraries in the Educational Process. 3 hrs.
A study of the role of the library in the total school program. Focuses on the implementation of the school's goals through instruction, consultation and curriculum support activities. Emphasizes a resource-based approach to learning. Fall and spring semesters. PR: LIBS 1105.

LIBS 4400. Library Practice. 3 hrs.
This course provides a minimum of 100 hours of practical experience in a library. For a B.A. in Education, this course must be taken concurrently with EDUC 4490 or 4495. PR: Instructor's consent.

MANAGEMENT

MGMT 2209. S-FSU Principles of Management. 3 hrs.
The emphasis in this course is on the modern approach to the field of management. Theoretical and practical approaches are presented, along with analytical techniques that are applicable in the various management and production areas.

MGMT 2214. Office Management. 3 hrs.
Students in this course will study management principles as they apply to job analysis, production measurement, paper-flow analysis, office design, work allocation and scheduling, construction and use of procedures manuals, forms design, criteria for equipment acquisition, staffing, supervising and motivating employees, labor-management relations, employee benefits, and information distribution and retrieval technologies.

MGMT 3308. Human Resource Management. 3 hrs.
A study of the field of personnel management and industrial relations, including its background, development and modern practices.

MGMT 3325. International Management. 3 hrs.
The purpose of this course is to help students understand specific issues involved in managing the operations of an international business firm in an increasingly global environment.

MGMT 3370. Compensation and Benefits. 3 hrs.
A comprehensive exploration of all forms of employee compensation management and benefit plans, including the various types of benefits and compensation devices found in the business, labor, government and academic communities. Focus areas include pay structures, internal and external pay equity, compensation packages and designing and planning well-conceived, efficient employee benefits. PR: MGMT 3308.

MGMT 3371. Employee Relations. 3 hrs.
This course examines the dynamics of employee-management relations, with emphasis on unions. Emphasis on methods of reducing employee-management conflict, understanding the grievance process and the role of arbitration and the role of government in the employee-relations process. PR: MGMT 3308.

MGMT 3372. Human Resource Selection and Evaluation. 3 hrs.
An in-depth study of legal, methodological, and substantive issues related to selection and performance appraisal of employees. Focus areas include concepts of job analysis, validation, test development and administration, adverse impact analysis and affirmative action. PR: MGMT 3308.

MGMT 3390. Organizational Behavior . 3 hrs.
The purpose of this course is to introduce the student to the problems of human behavior in the organizational setting and the approaches available for solving these problems. Students will examine theories of individual, interpersonal and group behavior in organizations, and will follow this with considerations of how organizations may be designed to utilize the talents of the individuals, and how managers may make use of the theories of motivation, communication and interaction in accomplishing the objectives of the organization. PR: MGMT 2209.

MGMT 4400. Organizational Theory and Design. 3 hrs.
This course is designed to provide students with an awareness of how organizations are designed and structured. Emphasis is placed on structural characteristics of organizations, how to shape those characteristics and understanding their influences on the organization. PR: MGMT 2209.

MGMT 4402. Organizational Change and Development. 3 hrs.
The course uses an experiential learning approach that provides potential and practicing managers with behavioral science intervention theory and methods for improving organizational performance. The students' work will focus on planned change of organizational cultures and processes such as communication, team building, roles, conflict and structure, with the aim of enhancing management behavior, human resources and productivity. PR: MGMT 3390, instructor's consent.

MGMT 4405. Operations Management. 3 hrs.
This course introduces students to various elements in the field of operations management. It covers the most common production and operations concepts encountered in modern production systems. Students will learn certain quantitative and statistical techniques that help evaluate the management of the firm's operations and performance. PR: BUSN 3310, MGMT 2209.

MGMT 4409. Quantitative Management. 3 hrs.
A study of the quantitative techniques which have been incorporated into the business environment in recent years. Menu-driven software is used to find solutions to problems associated with the more popular management science techniques. PR: BUSN 3310.

MANUFACTURING ENGINEERING TECHNOLOGY

MANF 1100. Materials and Processes. 3 hrs.
This course covers the scientific concepts underlying the basic, procurement, process, fabrication and finishing industries while studying the physical and chemical properties of the organic and inorganic materials utilized in today's industrial complex.

MANF 2205. Engineering Economy. 3 hrs.
Techniques of engineering economy as related to cost, design and selection of materials. PR: MATH 1102.

MANF 2250. Total Quality & SPC. 3 hrs.
The purpose of this course is to introduce students to concepts related to total quality management and statistical process control. Topics include the total quality concept, the contributions of W. Edwards Deming, quality and competitiveness, establishing a customer focus, leadership and teamwork, decision-making and problem solving, foundations of statistical process control and continuous improvement.

MARKETING

MKTG 2204. S-FSU Principles of Marketing. 3 hrs.
A study of those business activities that direct the flow of goods and services from producers to consumers.

MKTG 2205. Salesmanship and Sales Management. 3 hrs.
This course is a study of techniques appropriate to personal selling and managing salespeople, both retail and contract. Students are given opportunities to construct and give presentations. PR: MKTG 2204.

MKTG 3305. Distribution and Logistics Management. 3 hrs.
The purpose of this course is to help students understand specific issues involved in distribution and logistics management. Systematic approaches to the formulation of distribution and logistical strategies will be discussed. PR: MKTG 2204.

MKTG 3310. Consumer Behavior. 3 hrs.
A study of the activities, behaviors and processes exhibited by consumers, directly involving the selection, procurement, consumption and disposition of products and services. PR: MKTG 2204.

MKTG 3320. Advertising and Sales Promotion. 3 hrs.
This is a survey course of social, psychological and some technical aspects of advertising and sales promotion for both business and journalism students. PR: MKTG 2204.

MKTG 3330. International Marketing. 3 hrs.
Focuses on specific issues involved in entering international markets and conducting marketing operations on an international scale.

MKTG 3340. Marketing Research. 3 hrs.
This course is designed to introduce students to the nature and scope of market research and its role in designing and implementing successful market programs. Among the topics covered are the market research process, research design, data collection and analysis. Basic and advanced statistics techniques will be discussed in detail, with emphasis on explaining the procedures, interpreting the results and uncovering the managerial implications. PR: BUSN 3310, MKTG 2204.

MKTG 3399. Special Topics in Marketing. 1-12 hrs.
This is an advanced studies course in special select marketing topics, to be determined by the instructor and approved by the Dean. PR: 12 credit hours in Marketing.

MKTG 4450. Marketing Management. 3 hrs.
This course is designed to provide a more in-depth study of marketing theory and processes. Emphasis will be placed on the analysis and decision-making processes required of marketing managers. PR: 15 credit hours in Marketing.

MATHEMATICS

MATH 0093 S-C&TC General Math. 3 hrs.
(See Academic Development Center)

MATH 0094 S-C&TC Pre-Algebra. 3 hrs.
(See Academic Development Center)

MATH 0095 S-C&TC Introductory Algebra. 3 hrs.
(See Academic Development Center)

MATH 1100. S-C&TC Intermediate Algebra. 3 hrs.
This is a course in techniques for performing operations on polynomial, exponential and rational expressions and subsequently solving linear and quadratic equations and inequalities. The course will also cover equations and inequalities using absolute value and function notation. This course cannot be used as mathematics credit toward certification for teaching mathematics or for the Liberal Studies Requirement in mathematics. PR: MATH ACT score of 19 or MATH SAT of 460 or COMPASS score of 36 or MATH 0095.

MATH 1101. S-FSU Applied Technical Mathematics I. 3 hrs.
This course is an introduction to fundamental mechanics and techniques for performing operations with algebraic expressions, and subsequently solving linear equations, systems of linear equations and quadratic equations. The course also introduces trigonometric functions and is designed to develop methods of solving right angles and oblique triangles using trigonometry. This course cannot be used to satisfy the general studies math requirement. PR: MATH ACT score of 19 or MATH SAT of 460 or COMPASS score of 36 or MATH 0095.

MATH 1102. S-FSU Applied Technical Mathematics II. 3 hrs.
This course is a continuation of Math 1101. Topics include solving radical equations and polynomial equations, complex numbers, exponential and logarithmic functions, inequalities and trigonometry. PR: MATH 1101 with a "C" or better.

MATH 1106. Applied Math in Health Careers. 3 hrs.
This course will cover general topics in arithmetic and algebra with applications geared to health careers. This course will meet the math requirement for the AAS Degree in Respiratory Care and is the health careers equivalent of MATH 1107. PR: A Math ACT score of 19 or higher, a Math SAT score of 460 or higher, a COMPASS score of 36 or higher, or MATH 0095.

MATH 1107. S-FSU Fundamental Concepts of Mathematics. 3 hrs.
This introductory survey course is specifically developed to fulfill the Liberal Studies requirements in mathematics. It is designed to strengthen computational skills while focusing on real-world problems. Topics may include critical thinking skills, sequences, set theory, probability, statistics, consumer mathematics and the metric system. PR: Math ACT score of 19 or MATH SAT of 460 or COMPASS score of 36 or MATH 0095.

MATH 1110. S-FSU Mathematics for Elementary Teachers I. 3 hrs.
An introductory course in mathematical ideas, this course includes basic concepts of set theory, properties of operations and a logical development of the real number system and its subsystems. Understanding of basic operations is stressed. This course cannot be used as math credit toward certification for teaching mathematics, or to satisfy the Liberal Studies math requirements. PR: MATH ACT score of 19 or MATH SAT of 460 or COMPASS score of 36 or MATH 0095. Must be admitted to Teacher Education to take this course. This course is not available to students entering as freshmen during or after Fall 2006 and will be taught for the last time in Spring 2007.

MATH 1112. S-FSU College Algebra. 3 hrs.
This course includes a review of real numbers, algebraic expressions, equations and inequalities, graphing, matrix operations and properties, systems of equations, exponents and radicals, mathematical induction, binomial expansion, progressions and related topics. PR: MATH ACT score of 21 or MATH SAT of 500 or COMPASS score of 49 or MATH 1100.

MATH 1113. S-FSU Applied Statistics. 4 hrs.
This course is an introduction to statistics with appropriate applications. Topics covered include descriptive statistics, probability, binomial distribution, normal distribution, sampling, hypothesis testing and regression and correlation. A problem-solving approach and modern software will be used to study the normal, t, chi-square and F distributions. PR: MATH ACT score of 21 or MATH SAT of 500 or COMPASS score of 49 or MATH 1102 or MATH 1112. Spring Semester Only.

MATH 1115. S-FSU Trigonometry and Elementary Functions. 3 hrs.
This course includes a study of circular and trigonometric functions, trigonometric identities, equations and graphs, vectors, logarithms, complex numbers, functions and inverse functions and related topics. PR: MATH ACT score of 23 or MATH SAT of 540 or COMPASS score of 63 or MATH 1112.

MATH 1170. S-FSU Introduction to Mathematical Analysis. 4 hrs.
This course is designed to help those students pursuing a degree in mathematics (who have not had five years of high school mathematics) gain the experience required for courses at the calculus level and beyond. Topics include an introduction to formal logic and set theory, the principle of mathematical induction, properties of real and complex numbers with proofs, general functions and related notions, sequences and series. PR: MATH ACT score of 23, or MATH SAT 540 or COMPASS score of 63 or MATH 1115.

MATH 1185. S-FSU Applied Calculus I. 4 hrs.
A study of calculus with an emphasis on its applications to science, business, technology and social science. Topics covered using the derivative consist of functions and their graphs, max/min problems, related rates, approximation of change and curvilinear motion. Topics covered using the integral consist of area, volume and accumulation functions. Graphing calculators and mathematical software will be introduced and used throughout the course. PR: MATH ACT score of 24, or MATH SAT 560 or COMPASS score of 67 or MATH 1115 or MATH 1102 with "B" or better.

MATH 1186. S-FSU Applied Calculus II. 4 hrs.
A continuation of the study of calculus as applied to science, business, technology and social science. The integral will be further studied, including applications of area, volume, accumulation functions, curvilinear motion, solutions to some simple differential equations and other applications chosen from a variety of disciplines. Students will examine sequences and series involving convergence and divergence, power

series and Taylor polynomials and series. The calculus of vectors and multivariable functions will be introduced and partial derivatives and multiple integrals will be used to study applied problems from a variety of disciplines. Graphing calculators and mathematical software will be used throughout this course. PR: MATH 1185. Spring Semester Only.

MATH 1190. Calculus I. 4 hrs.
This course is the calculus of one variable, beginning with an intuitive study of limits and a geometric interpretation of the derivative. Topics include differentiation of functions and the application of the derivative to graphing functions, approximating functions, solving max/min problems and related rate problems, anti-differentiation and its link to the signed area under a curve, the fundamental theorem of calculus and applications of the definite integral. PR: MATH ACT score of 25, or MATH SAT 570, or COMPASS 73, or MATH 1115 or MATH 1170 or MATH 1186.

MATH 1199. Special Topics in Mathematics. 1-12 hrs.
Studies in special selected topics, to be determined by the instructor and approved by the department chair. Credits earned will be applicable as free electives in degree and certificate programs.

MATH 2200. Mathematical Logic. 3 hrs.
This course covers sentential and general theory of inference, theory of proof and definition and elementary intuitive set theory. PR: MATH 1115 or MATH 1170 or MATH 1185 or MATH 1190. Spring semester only.

MATH 2206. Introduction to the Theory of Numbers. 3 hrs.
Topics include prime numbers, the unique factorization theorem, congruencies, Diophantine equations, primitive roots and the quadratic reciprocity theorem. PR: MATH 1190. Spring Semester Odd Years Only.

MATH 2210. Mathematics for Elementary Teachers II. 3 hrs.
A continuation of Math 1110. Topics covered in the course include a continuation of the study of the real number system, an introduction to logic, probability and statistics. PR: MATH 1110 with a "C". Must be admitted to Teacher Education to take this course. This course will be taught for the last time in Fall 2007.

MATH 2212. Sets, Relations and Functions. 3 hrs.
Topics to be studied are those related to sets, relations and functions which are common to most upper-level mathematics courses. Fall semester only. PR: MATH 1170 or MATH 1190. Fall Semester Only.

MATH 2216. Introduction to Discrete Mathematics. 3 hrs.
This course is designed to provide a survey of the reasoning and objects of study found in discrete mathematics. Topics considered include sets, relations, functions, combinatorics, graphs, trees, discrete probability and recurrence relations. Interspersed throughout the course will be material on the nature of proof and analysis of algorithms. PR: MATH 1115 or MATH 1170 or MATH 1185 or MATH 1190. Fall Semester Only.

MATH 2251. Structure of the Real Numbers. 3 hrs.
This course starts with basic concepts of sets and continues with properties of operations and a logical development of the set of real numbers. Beginning number theory concepts and an introduction to probability are also included. This course connects structure to prior math knowledge and real-world applications. This course may not be used to satisfy the Liberal Studies math requirement. PR: Math 1112 or Math ACT of 23 or Math SAT of 540 or Compass score of 63, and admission to Teacher Education.

MATH 2252. Data Analysis and Geometry. 3 hrs.
This course offers an introduction to data analysis and statistics and the study of geometry. Included is descriptive statistics, standard and non-standard measurement, a formal and informal approach to geometry, van Hiele levels, and the use of dynamic geometry software. This course may not be used to satisfy the Liberal Studies math requirement. PR: Math 1112 or Math ACT of 23 or Math SAT of 540 or Compass score of 63, and admission to Teacher Education

MATH 3315. Calculus II. 4 hrs.
This course is a continuation of MATH 1190. Topics include applications of the definite integral, exponential and logarithmic functions, inverse trigonometric functions, techniques of integration, conic sections, plane curves and polar coordinates, limits involving indeterminate forms, improper integrals, sequences, and infinite series. Spring semester only. PR: MATH 1190.

MATH 3316. Calculus III. 4 hrs.
This course is a continuation of Math 3315. Sequences and series will be followed by a study of calculus of two and three variables. Topics include vectors, dot product, cross product, lines, planes, vector functions and their derivatives and integrals, the study of quadratic surfaces, partial differentiation, gradient and double and triple integrals. PR: MATH 3315 or (MATH 1186 and MATH 1190.) Fall Semester Only.

MATH 3323. Mathematics for Elementary Teachers III. 3 hrs.
This is the last of three courses intended to give prospective elementary teachers adequate training in the concepts and skills of basic mathematics. A study of metric and non-metric geometry will be made, including both an informal and formal approach to proofs of elementary theorems. PR: MATH 2210 with a "C". Must be admitted to Teacher Education to take this course. This course will be taught for the last time in Spring 2208.

MATH 3335. Probability and Statistics. 3 hrs.
Course topics include sample spaces, events as subsets, probability axioms, finite sample spaces and equiprobable measure as special case, binomial coefficients and counting techniques applied to probability problems, conditional probability, independent events, Bayes' formula, random variable, probability functions, density and distribution functions, special distributions, independent random variables, Poisson and normal approximation to the binomial and some statistical applications. Students will also learn estimation and sampling, point and interval estimates, hypothesis-testing, power of a test and regression. PR: MATH 3316 or concurrent enrollment in MATH 3316. Spring Semester Only.

MATH 3342. Numerical Analysis. 3 hrs.
In this course, students will investigate solutions of equations, functional iteration of equations, analysis of special methods such as the methods of false position and of Newton, iteration for systems of equations, reduction to first order systems, Gaussian elimination and some iterative methods for inversion. PR: COMP 1102 and CR: MATH 3316. Fall Semester Odd Years Only.

MATH 3353. Math Methods for Elementary Teachers. 3 hrs.
This course is designed to prepare pre-service elementary school teachers to teach mathematics. Students will study tools for teaching mathematics, math teaching strategies, current topics in math education, problem solving and reasoning, and assessment. Numerous laboratory experiences are required such as tutoring, micro-teaching, and construction of a NCTM Standards-based unit. This course may not be used to satisfy the Liberal Studies math requirement. PR: Math 2251 and Math 2252 with a C or better in each and admission to Teacher Education.

MATH 3361. Abstract Algebra. 3 hrs.
Topics include sets, relations, functions, operations, algebraic systems such as integers, rationals and matrices, isomorphism and examples. Students will examine equivalence classes, groups, subgroups, cyclic groups, basic theorems, Lagrange's theorem, homomorphism, normal subgroups, quotient group, the isomorphism theorems, rings, integers, matrices, polynomials, integral domains, fields and quotient field. The course will also cover ideals, residue class rings, unique factorization domains, Euclidean domains, integers, polynomials over a field, division algorithm, highest common factor and unique factorization in Euclidean domain. PR: MATH 1190 and MATH 2212. Spring Semester Only.

MATH 3362. Linear Algebra. 3 hrs.
This course covers vector spaces abstractly defined, linear dependence and independence, bases and subspaces, dimension of linear space, linear mappings, kernel and image of maps, rank of maps, linear maps as vector spaces, composition of mappings and multiplication of

matrices, the relation between linear mappings and systems of linear equations, row reduced echelon matrix, invertible matrices, calculation of inverse, linear inequalities and half spaces. PR/CR: MATH 3315. Fall Semester Only.

MATH 3372. Modern Geometry. 3 hrs.
A brief review of informal Euclidean geometry, including areas and volumes. The course will also include a formal development of Euclidean geometry, utilizing concepts such as incidence, convexity separation, distance functions and angular measurement functions. Other geometric topics such as topology, non-Euclidean geometry, finite geometries, projective geometry and transformational geometry are briefly introduced. PR: MATH 1190. Fall Semester Even Years Only.

MATH 3375. Topology. 3 hrs.
This course consists of the study of topological spaces and notions, including continuity, convergence, separation, compactness and connectedness. PR: MATH 2212 and 3316. Spring Semester Odd Years Only.

MATH 3391. Real Analysis. 3 hrs.
Covers real numbers, topology of the reals, infinite series, continuous functions, sequences and series of functions, differentiation, integration and power series. PR: MATH 2212 and MATH 3316. Spring Semester Even Years Only.

MATH 4400. Seminar. 1-3 hrs.
PR: instructor's consent.

MATH 4401. Differential Equations. 3 hrs.
A study of first-order and simple higher-order ordinary differential equations and their applications, linear differential equations with constant coefficients and their application, simultaneous differential equations and their applications, the numerical solution of differential equations and solution of differential equations by use of series. PR: MATH 3316. Spring Semester Odd Years Only.

MATH 4431. Methods and Materials in Teaching Mathematics. 3 hrs.
This course is designed for senior education majors with a math teaching specialization in either grades 5-Adult or 5-9. Mathematics curricula and methods at the middle and high school levels are studied. Numerous laboratory experiences such as microteaching and math tutoring are required. 5-9 and 5-Adult must complete this course prior to enrolling in Secondary Student Teaching/Clincial III. PR: 5-9 majors: MATH 1185 and MATH GPA of 2.75. 5-Adult majors; MATH GPA of 2.75. Fall Semester Only. Must be admitted to Teacher Education to take this course.

MECHANICAL ENGINEERING TECHNOLOGY

MECH 1100. Statics. 3 hrs.
The study of force systems that act on rigid bodies in static equilibrium. Topics of study include the analysis of coplanar and noncoplanar force systems using analytical and graphical methods. PR: MATH 1115, or CR: MATH 1102.

MECH 2200. Strength of Materials. 4 hrs.
The analysis of stress and deformation of deformable bodies under the action of forces. Students will examine the design and selection of tension and compression members, shafts and beams, stress and strain, Hook's Law, mechanical properties of engineering materials, torsion, bending and buckling theory. PR: MATH 1102 and MECH 1100 with a C or better in both.

MECH 2210. Thermodynamics I. 3 hrs.
An introduction to the thermodynamic laws of conservation of mass and energy. Students will explore applications in the analysis of energy sources, transformations and utilizations. PR: MECH 1100 with a C or better.

MECH 2220. Fluid Mechanics. 3 hrs.
A study of the mechanics of fluid systems. Topics include fluid statics and dynamics, dimensional analysis and similitude, steady flow of incompressible fluids in pipes, ducts, and open channels, steady flow of compressible fluids over surfaces and about immersed bodies and turbomachinery. PR is one of the following: PR: MECH 2200, TECH 2290 or MATH 1185 or MATH 1190.

MECH 2240. Machine Design I. 3 hrs.
Application of the principles of mechanics to the design and selection of machine components. Topics of study include beams, columns, shafts, gears, bearings, belts, brakes, and springs. Design projects will be assigned and computer solutions will be utilized. PR: MECH 2200, COMP 1101 and either TECH 2290 or MATH 1185 or MATH 1190. Spring Semester Only.

MECH 3300. Thermodynamics II. 3 hrs.
A continuation of the study of thermodynamics, with special emphasis on equations of state, calorimetry, processes, heat engines and the Second Law of Thermodynamics. Topics include PVT relationships of pure substances, caloric equations of state, properties of multi-phase substances, processes of compressible and incompressible gases, liquids, solids, and multi-phase substances, the Carnot heat engine, entropy, refrigeration and heat pump cycle, the Third Law of Thermodynamics and the analysis of Carnot cycles. PR: MECH 2210.

MECH 3320. Dynamics. 3 hrs.
The study of Newtonian dynamics of particles and rigid bodies in plane motion. Topics include Kinematics, Newton's Laws, work and energy principles and impulse momentum. Baccalaureate majors only. PR: MECH 1100 and TECH 3300 or MATH 1186 or MATH 3315.

MECH 3330. Heat Transfer I. 3 hrs.
A study of heat energy interactions in solids, liquids, and gases. Topics include fundamental laws of conduction, convection and radiation heat transfer. Baccalaureate majors only. PR: PHYS 1102, TECH 3300 or MATH 1186 or MATH 3315.

MECH 3340. Heating, Air Conditioning and Ventilation. 3 hrs.
A study of the principles of fluid mechanics, thermodynamics and heat transfer as applied to HVAC systems. Topics include: heating and cooling load calculations, heating, air conditioning and refrigeration systems; automatic controls; heat pumps for heating and cooling; solar heating and cooling systems. PR: MECH 3300, MECH 3330. Spring semester only.

MECH 3350. Numerical Methods. 3 hrs.
A study of numerical methods, with application to the formulation and solution of engineering problems. Topics include mathematical modeling, engineering problem solving, roots and equations, curve fitting, numerical integration and ordinary differential equations. Digital computers and software are used extensively. PR: COMP 1101, PHYS 1101, and either TECH 2290 or MATH 1185 or MATH 1190.

MECH 4400. Mechanical Measurements. 3 hrs.
The study of the measurement of motion, force, torque and power with emphasis on strain measurement and strain gage techniques with instrumentation. Topics also include error analysis, and curve fitting. PR: MECH 3320.

MECH 4410. Thermodynamics III. 3 hrs.
A continuation of the study of thermodynamics, with special emphasis upon application to heat, power and refrigeration systems. Topics include energy availability and irreversibility in open and closed thermodynamic systems, mixtures of gases and vapors, reactive systems, internal and external combustion power cycles, reversed cycles and flow through nozzles and diffusers. PR: MECH 3300, 3330.

MECH 4430. Heat Transfer II. 3 hrs.
A continuing study of conduction, convection, and radiation heat transfer, with emphasis on application to residential, commercial and industrial and heat exchanger design. Topics include steady-stated

transient heat conductions, free and forced heat convection, condensing and boiling heat transfer, radiation, transfer by combined mechanisms, numerical and analog methods. PR: MECH 3330.

MECH 4440. Engineering Systems Design Laboratory. 3 hrs.
A study of analog, digital and mixed engineering systems, similitude of mechanical and electrical engineering systems, dimensional analysis and theory of models. PR: MECH 3300, MECH 3320. Spring semester only.

MEDICAL LABORATORY TECHNOLOGY

MLAB 1103 Clinical Serology. 2 hrs.
This course is designed to include basic immunology principles, theory and diseases related to antigen and antibody reactions and techniques. Laboratory methodology including serial dilutions will be performed. MLT majors have registration priority for this class. One hour lecture, two hours lab per week. Fall. Permission of Instructor. MLT Majors only.

MLAB 1104 Urinalysis and Body Fluids. 2 hrs.
Through a combination of lecture and laboratory experience, students will study the theory and techniques of analyzing urine and body fluids, including the clinical significance of these analyses. One hour lecture and two hours lab per week. PR: HLCA 1105 and BIOL 1170. Spring. MLT Majors only.

MLAB 1105 Laboratory Mathematics and Instrumentation. 3 hrs.
This course is designed to familiarize students enrolled in Medical Laboratory Technology with practical aspects of the Clinical Laboratory. Through a combination of lecture and laboratory experience, students will be exposed to laboratory calculations, quality assurance, safety, manual and automated instrumentation, including sample analysis, patient and quality control validation, and patient and quality control charting. Two hours lecture, two hours lab per week PR: HLCA 1105 and acceptance into the MLT program. Spring. MLT Majors only.

MLAB 1160 Clinical Microbiology I. 4 hrs.
This course is an introduction to the study of medically important bacteria and parasites. The biochemistry, genetics, and physiology of bacteria will be discussed as well as methods of cultivation, isolation, and identification of these organisms. Life cycles of parasites and methods of identification will be studied. PR: BIOL 1170 and HLCA 1105. Two hours lecture and four hours lab per week. Spring. MLT Majors only.

MLAB 1180 Immunohematology. 4 hrs.
This course is designed to incorporate theory, principles, applications and reactions of antigens and antibodies associated with the red blood cell. Blood typing, blood donation, transfusion reactions, genetics, hemolytic disease and quality control will be covered utilizing laboratory methodologies, case studies, and computer tutorials. 3 hrs. lecture and 3 hrs. of laboratory per week. PR: MLAB 1103. Spring. MLT Majors only.

MLAB 2218 Hematology. 4 hrs.
This course is designed to provide the student with an understanding of the theory and principles in normal blood cell production, blood dyscrasias, and coagulation. Applications and techniques of measurement used in performing the complete blood count, coagulation studies, and special hematological procedures will be used in the laboratory. Nine hours lecture and nine hours laboratory per week. PR: HLCA 1105. Summer I. MLT Majors only.

MLAB 2219 Clinical Microbiology II. 4 hrs.
This course is a study of bacterial, fungal, and viral disease agents which includes the clinical laboratory methods of cultivation, isolation, and identification of bacteria and fungi. Three hours lecture and three hours lab per week. PR: CHEM 1102 or 1106 and MLAB 1160. Fall. Majors only.

MLAB 2220 Clinical Biochemistry. 4 hrs.
This course is designed to address principles, procedures and disease states relating to the field of clinical chemistry. Abnormal laboratory results will be correlated to disease states using case studies. Laboratory safety, instrumentation, computer and laboratory information system use, and quality assurance will be stressed. Three hours lecture, three hours lab per week. PR: MLAB 1105, CHEM 1102 Fall. MLT Majors only.

MLAB 2221 Clinical Practicum I. 4 hrs.
This course is designed to orient the students to the Clinical Laboratory. Students will be assigned to a major area of the laboratory (chemistry, hematology, immunohematology, or microbiology). Laboratory safety, specimen collection including phlebotomy, specimen processing and analysis, data acquisition, quality assurance and sample validation, instrument troubleshooting, sample reporting including calculations, charting and clinical correlation will be included. Clinical serology and urinalysis/body fluid techniques and objectives will be completed in the appropriate major department. 154 hours laboratory. MLT Majors only.

MLAB 2222 Clinical Practicum II. 4 hrs.
This course is a continuation of MLAB 2221. Students will be assigned to a second major area of the laboratory. Additional skills and increased competency levels in specimen processing and sample analysis, data acquisition, quality assurance and reporting will be included. Interpersonal relationships and basic techniques involving the major area of study will be emphasized. PR: MLAB 2221. 154 hours laboratory. MLT Majors only.

MLAB 2223 Clinical Practicum III. 4 hrs.
This course is a continuation of MLAB 2222. Students will be assigned to a third major area of the laboratory. Additional skills and increased competency levels in specimen processing and sample analysis, data acquisition, quality assurance and reporting will be included. Interpersonal relationships and basic techniques involving the major area of study will be emphasized. PR: MLAB 2222. 154 hours laboratory. MLT Majors only.

MLAB 2224 Clinical Practicum IV. 4 hrs.
This course is a continuation of MLAB 2223. Students will be assigned to a fourth major area of the laboratory. Additional skills and increased competency levels in specimen processing and sample analysis, data acquisition, quality assurance and reporting will be included. Interpersonal relationships and basic techniques involving the major area of study will be emphasized. PR: MLAB 2223. 154 hours laboratory. MLT Majors only.

MLAB 2225 Seminar. 2 hrs.
This course is designed to correlate the MLT students' didactic knowledge with their clinical experience. The significance of licensure, certification, registration, and accreditation; professional societies; ethics; employment opportunities; and career laddering will be discussed. Guest lecturers, field trips, computer and CD assignments and community interaction will be used as teaching tools. PR: Consent, MLT student in final semester of program. Spring Only. MLT Majors only.

MLAB 2226 Clinical Case Studies. 2 hrs.
This course is designed to enhance the critical thinking skills and communication skills necessary in the clinical laboratory. Through a combination of lecture and presentation experiences, students will be able to combine didactic and practical knowledge obtained in all MLT courses. Each student will present a clinical case study and critique the presentation of other students. PR: MLT student in final semester of program. Spring.

MUSIC

MUSI 1100. Introduction to Music Education. 1 hr.
This course is a seminar-style overview of the field of music education. Topics of discussion include philosophies, teaching methods, administration, technology and historical background. Students are

required to do some observation in the schools. Required for all music education majors. Elective for music minors and non-music majors. Fall Semester.

MUSI 1101. Concerts, Recitals, and Seminars. credit
Credit, no credit to be issued each semester. Students will attend scheduled concerts and seminars. Music majors and minors are required to attend 50 percent of scheduled programs each semester, except when student teaching.

MUSI 1102. Introduction to Keyboard I. 1 hr.
This course in beginning piano is designed as an elective for the student not majoring or minoring in music. It is conducted in a piano lab setting which allows both individual and group participation. Fall semester only.

MUSI 1103. Introduction to Keyboard II. 1 hr.
This course in early intermediate piano is designed as an elective for the student not majoring or minoring in music. It is conducted in a piano lab setting which allows both individual and group participation. Spring semester only. PR: MUSI 1102.

MUSI 1104. Functional Piano I . 1 hr.
This course is required of all students majoring or minoring in music. Piano majors and minors with a piano emphasis may substitute Keyboard Accompanying or other applied electives. Music Majors only. Fall semester only.

MUSI 1105. S-FSU Functional Piano II. 1 hr.
This course is required of all students majoring or minoring in music. Piano majors and minors with a piano emphasis may substitute Keyboard Accompanying or other applied electives. Spring semester only. PR: MUSI 1104. Music Majors only.

MUSI 1106. Guitar Class I-II. 1 hr.
This course is designed for all students in beginning guitar. This will be conducted through group instruction, with each student being offered the opportunity for participation.

MUSI 1107. Piano; 3307. Upper-level Piano. 1-2 hrs.
One credit hour equals one half-hour private piano lesson per week. Two credit hours equal one one-hour private lesson per week. Students must consult with instructor for lesson placement during the first week of classes. PR: Permission of Instructor, Music majors only.

MUSI 1108. Beginning Theory (on demand). 2 hrs.
This course is designed for beginning music students who need additional background in theory.

MUSI 1109. Theory, Comprehensive. 4 hrs.
This course is organized in five interacting streams of study to develop the skills necessary for the perception and understanding of music. These concentrations comprise formal and harmonic analysis, composition, ear training, keyboard harmony and singing. This course surveys the compositional techniques of the eighteenth and nineteenth centuries. A weekly lab is required. Fall semester only.

MUSI 1110. Theory, Comprehensive. 4 hrs.
A continuation of MUSI 1109, with emphasis in compositional study involving modulation and musical perception with and without score. Five minute laboratory. Spring semester only. PR: MUSI 1109.

MUSI 1111. Introduction to Music Technology. 3 hrs.
This course is designed for current music majors to give a basic laboratory-style overview of music technology and computer-aided instruction that can be used in the public school classroom. It is conducted in a lecture/laboratory workshop setting so that students can gain the maximum exposure to music technology in a practical setting. Topics of discussion include: The need for music technology in the classroom, Software programs for elementary general music, Programs for secondary choral music classrooms, Programs for secondary instrumental music classrooms, Miscellaneous Music Education software programs, Music Administration software, and recording technology. Required for all music education majors. Elective for music minors with permission of instructor. Spring Semester.

MUSI 1120. S-FSU Music Appreciation. 3 hrs.
An introduction to Western music, the music of other cultures and styles of popular music. Students are encouraged to develop their own perspectives, talents, listening/critical skills, and appreciation for the musical interests of others. Sound and video recordings of music will play an integral part in the class.

MUSI 1139. S-FSU Voice Class (first semester). 1 hr.
A study of the fundamentals of voice production: breathing, resonance, articulation, and style. Fall semester only.

MUSI 1141. Voice I-IV; 3341. Voice I-IV (last 4 semesters). 1-2 hrs.
Open to students who have sufficient musical background and vocal quality to merit individual instruction. The principles of proper vocal production are stressed, with later emphasis upon solo repertoire in English, Italian, German, and French. Section 1 – Music Majors, Section 2 – Open, Section 3 – Theatre Majors.

MUSI 1167. S-FSU Collegiate Singers. 1 hr.
A large mixed chorus open to all students. The Collegiates perform literature from the Renaissance to modern and popular styles. Activities include one or two performances per semester and a spring tour.

MUSI 1168. S-FSU Marching Band. 2 hrs.
Open to students who play a band instrument or have the necessary skills to participate in one of the auxiliary units such as flags, rifles, or twirlers. The Marching Band performs at all home football games during the fall semester and at various marching band activities such as parades and festivals. Fall semester only.

MUSI 1169. S-FSU Wind Ensemble. 1 hr.
Open to all students who can play a band instrument. Students study and perform a wide variety of band literature. Spring semester only.

MUSI 1172. S-FSU University-Community Orchestra. 1 hr.
Open to all students and members of the community who can play an appropriate orchestral instrument, space permitting. The course is designed to present the study and performance of orchestral literature appropriate to the ability of its members. Audition/admission at the discretion of the director.

MUSI 1175. Guitar I-IV; 3375. Guitar I-IV (last 4 semesters). 1-2 hrs.
PR: Instructor's consent.

MUSI 1177. Percussion I-IV; 3377. Percussion I-IV (last 4 semesters). 1-2 hrs.

MUSI 1179. Saxophone I-IV; 3379. Saxophone I-IV (last 4 semesters). 1-2 hrs.

MUSI 1181. Flute I-IV; 3381. Flute I-IV (last 4 semesters). 1-2 hrs.

MUSI 1183. Clarinet I-IV; 3383. Clarinet I-IV (last 4 semesters). 1-2 hrs.

MUSI 1185. Oboe I-IV; 3385. Oboe I-IV (last 4 semesters). 1-2 hrs.

MUSI 1187. Bassoon I-IV; 3387. Bassoon I-IV (last 4 semesters). 1-2 hrs.

MUSI 1189. Trumpet or Cornet I-IV; 3389. Trumpet or Cornet I-IV (last 4 semesters). 1-2 hrs.

MUSI 1191. Baritone Horn I-IV; 3391. Baritone Horn I-IV (last 4 semesters). 1-2 hrs.

MUSI 1193. French Horn I-IV; 3393. French Horn I-IV (last 4 semesters). 1-2 hrs.

MUSI 1195. Trombone I-IV; 3395. Trombone I-IV (last 4 semesters). 1-2 hrs.

MUSI 1197. Tuba I-IV; 3397. Tuba I-IV (last 4 semesters). 1-2 hrs. PR: Instructor's consent.

MUSI 1198 Organ I-IV; 3398. Organ I-IV (last 4 semesters). -2 hrs.
The program of study will be fitted to the individual needs of the subject.

MUSI 1199. Special Topics in Music. 1-12 hrs.
Studies in special selected topics, to be determined by the instructor and approved by the School's chairman. Credits earned will be applicable as free electives in degree and certificate programs

MUSI 2200. Violin I-IV; 3300. Violin I-IV (last 4 semesters). 1-2 hrs.
PR: Instructor's consent.

MUSI 2201. Viola I-IV; 3301. Viola I-IV (last 4 semesters). 1-2 hrs.

MUSI 2202. Cello I-IV; 3302. Cello I-IV (last 4 semesters). 1-2 hrs.

MUSI 2203. Bass Violin I-IV; 4403 Bass Violin I-IV (last 4 semesters). 1-2 hrs.
PR: Instructor's consent.

MUSI 2204. Functional Piano III. 1 hr.
This course is required of all students majoring or minoring in music. Piano majors and minors with a piano emphasis may substitute Keyboard Accompanying or other applied electives. Fall semester only. PR: MUSI 1105.

MUSI 2205 Functional Piano IV. 1 hr.
This course is required of all students majoring or minoring in music. Successful completion is required to pass the piano proficiency requirement for music education and the music minor. Piano majors and minors with a piano emphasis may substitute Keyboard Accompanying or other applied electives. Spring semester only. PR: MUSI 1103.

MUSI 2206. Music Appreciation for Majors. 3 hrs.
A survey of the history and literature of music, designed for the music major and minor. The study of the various styles and forms of western art music, world music, and popular music will include regular use of sound and video recordings. The purpose of the course is the development of a greater depth of understanding and appreciation of music. Spring semester only. Music Majors Only.

MUSI 2209. Theory, Comprehensive. 4 hrs.
Continuation of MUSI 1110, covering theoretical principles of the baroque and classical periods. Emphasis on contrapuntal forms and compositions of large formal structures. A weekly lab is required. PR: MUSI 1110. Fall semester only.

MUSI 2210. Theory, Comprehensive. 4 hrs.
Continuation of MUSI 2209, developing the skills necessary for the perception and understanding of music. Features theoretical principles of the romantic period and the twentieth century. Five minutes' laboratory each week. PR: MUSI 2209. Spring semester only.

MUSI 2211. String Class. 1 hr.
This course is open to all students with sufficient background in music. A working knowledge of string instruments is attained through class instruction.

MUSI 2213. Brass Class. 1 hr.
This course is open to all students with sufficient background in music. A working knowledge of brass instruments is attained through class instruction. Fall semester only.

MUSI 2215. Woodwind Class. 1 hr.
This course is open to all students with sufficient background in music. A working knowledge of woodwind instruments is attained through class instruction. Spring semester only.

MUSI 2217. Percussion Class. 1 hr.
Open to all students with sufficient background in music. A working knowledge of percussion instruments is attained through class instruction. Spring semester only.

MUSI 2219. Guitar Class for Music Majors. 1 hr.
This course is an introduction to skills required for playing and teaching the guitar and other fretted instruments. Topics include fundamentals of technique, chord accompaniment, notation systems, and evaluation of teaching materials. This course is required for all music education majors.

MUSI 2231. Elementary Music I. 3 hrs.
This course provides a background in music theory, terminology of music, rhythm, music reading, chord construction and use of the keyboard and classroom instruments needed by the classroom teacher. Required for all elementary education majors. Fall semester only.

MUSI 2232. Elementary Music II. 3 hrs.
Application of course work from MUSI 2231, including teaching methods and music lesson planning using state content standards. Integration of music activities with elementary classroom curriculum is emphasized. PR: MUSI 2231. Spring semester only.

MUSI 2245. Fundamentals of Conducting. 2 hrs.
This course is designed to acquaint the student with standard conducting techniques, including a working knowledge of all standard beat patterns, the active gestures including legato, staccato and tenuto gestures as well as gestures of syncopation, the passive gestures, the analysis of various types of fermata and a thorough understanding of transposition. PR: MUSI 1109. Spring semester only.

MUSI 2247. S-FSU Stage Band. 1 hr.
A traditional jazz ensemble open to saxophonists, trombonists, trumpeters, percussionists, guitarists, bassists and pianists regardless of academic major. The ensemble explores a variety of jazz, jazz-rock and other styles. PR: Audition or admission at the discretion of the director.

MUSI 2249. Advanced Woodwind Ensemble. 1 hr.
Open to advanced woodwind students. Includes various Woodwind ensembles. PR: Audition or admission at the discretion of the director.

MUSI 2251. Instrument Repair and Maintenance. 2 hrs.
A survey of the simple instrument repair problems that are commonly encountered in a school music program. Practical repair experiences are included where appropriate. Offered on demand.

MUSI 2275. Advanced Brass Ensemble. 1 hr.
Open to advanced instrumental students, this course is designed to give students an opportunity to participate in small ensembles. Groups meet on a regular weekly rehearsal schedule under faculty direction. PR: Audition or admission at the discretion of the director.

MUSI 2277. S-FSU Chamber Choir. 1 hr.
Open to advanced vocal students. Designed to give students experience in small ensemble participation. Groups meet on a regular rehearsal schedule under faculty direction. PR: Audition at beginning of each semester.

MUSI 2279. Advanced Percussion Ensemble. 1 hr.
Open to advanced percussion students and students with percussion experience. Designed to give students experience in small ensemble participation: Groups meet on a regular rehearsal schedule under faculty direction. PR: Audition or admission at the discretion of the director.

MUSI 3309. Orchestration. 2 hrs.
A survey of the technical abilities and limitations of the instruments of the orchestra and band with an emphasis on the practical fundamentals of score preparation.

MUSI 3310. Counterpoint (on demand). 2 hrs.
A study of the style and technique involved in the writing of sixteenth century polyphonic music. PR: MUSI 2210.

MUSI 3311. Form and Analysis (on demand). 2 hrs.
A study of form and the analysis of music, as found in the literature from the seventeenth to the twentieth centuries. PR: MUSI 2209.

MUSI 3312. Composition (on demand). 2 hrs.
This course is designed to teach, through the study of various types of music, a basic and accepted approach to creative composition. PR: MUSI 2209.

MUSI 3313. Music in Western Civilization to 1750. 3 hrs.
An in-depth study of music history and literature from antiquity through the Baroque period. Music Majors Only.

MUSI 3314. Music in Western Civilization since 1750. 3 hrs.
An in-depth study of music history and literature from the Classical period to the present. PR: instructor's consent. Music Majors Only.

MUSI 3320. Techniques of Keyboard Accompanying. 1 hr.
A course designed to acquaint music majors with the techniques involved in playing keyboard accompaniments for performing groups, soloists and chamber music. Students will have regularly scheduled laboratory experiences in playing accompaniments for vocal and instrumental soloists and ensembles.† Sight-reading, transposition, and various technical exercises will also be included. Recommended for piano majors. Offered on demand.

MUSI 3328. Elementary Music Methods and Materials for Majors, K-6. 2 hrs.
An in-depth introduction to various teaching methods and materials that can be used by the elementary music teacher.† Methods introduced will include Dalcroze, Gordon, Kodaly and Orff.† Materials will be derived from numerous sources and will include music from many countries and cultures.† Students will practice and demonstrate basic skills in voice, recorder, autoharp, and Orff instruments, and will practice writing and teaching lesson plans at the K-6 grade level. PR: MUSI 1110, 1139 or 1141.† Fall semester only.

MUSI 3347. Advanced Conducting. 2 hrs.
This course is a continuation of the techniques studied in MUSI 2245, with an emphasis on refinement of the manual technique as well as basic analytical and marking techniques required for score preparation. Fall semester only. PR: MUSI 2245.

MUSI 4425. Marching Band Techniques. 2 hrs.
This course is designed to explore the various components needed to direct a successful marching band program. Topics will include philosophies, administration, basic marching techniques, show design, accurate charting, music selection, auxiliary units, uniforms and rehearsal techniques. Fall semester only.

MUSI 4429. Instrumental Methods, Materials and Administration. 2 hrs.
Students in this course will learn advanced and practical applications of instrumental conducting techniques, methods, administration and materials used in teaching instrumental music in the secondary schools. Music Majors Only.

MUSI 4430. Choral Methods, Materials and Administration. 2 hrs.
Advanced and practical application of choral conducting techniques, methods, administration, materials used in teaching choral music in the secondary schools. Music Majors Only.

MUSI 4431. Methods and Materials in Teaching Music 3 hrs.
Techniques, methods and materials used in teaching and administering general music classes and high school music classes. Music Majors Only. Fall semester.

MUSI 4432. Choral Workshop (on demand). 2 hrs.
Writing Intensive
This course is designed to upgrade choral instructors' teaching techniques and administration. Includes experiences in conducting choral groups, interpretation, participating in choral rehearsals and performances and the study of problems related to choral teaching and administration.

MUSI 4433. Instrumental Workshop (on demand). 2 hrs.
Offered to help students improve their instrumental teaching techniques and administration. Includes experiences in conducting instrumental groups, interpretation, participating in instrumental rehearsals and performances and the study of problems related to instrumental teaching and administration.

MUSI 4434. Composition Workshop (on demand). 2 hrs.
Study of the composition of choral and instrumental works. Students will hear works performed by live groups.

MUSI 4435. Music Production Workshop. 1-3 hrs.
A laboratory experience in music theater. The course culminates in a public presentation of opera or musical comedy. PR: instructor's consent.

MUSI 4437. Area Studies in Music Literature I. 1-3 hrs.
Concentrated study of selected areas of music, to be determined by the instructor. PR: instructor's consent.

MUSI 4438. Area Studies in Music Literature II. 1-3 hrs.
Concentrated study of selected areas of music, to be determined by the instructor. PR: instructor's consent.

MUSI 4439. Area Studies in Music Literature III. 1-3 hrs.
Concentrated study of selected areas of music, to be determined by the instructor. PR: instructor's consent.

MUSI 4440. Senior Recital. 1 hr.
See Music Department Handbook. All music majors are required to present a senior recital or its equivalent before the faculty jury or public.

MUSI 4442. & 4443. Theory Workshop (on demand). 2-3 hrs.
Identification of suitable materials for the teaching of theory in the high schools, as well as methodology and pedagogical procedures for theory instruction. May be repeated for additional credit, with a maximum of six hours.

MUSI 4444 Elementary Workshop (on demand). 1-2 hrs.
Identification of suitable materials for the teaching of elementary music, as well as new and innovative methodology.† May be repeated for additional credit, with a maximum of four hours. PR: MUSI 3328 or instructor's consent. Offered on demand.

NURSING

NURS 1101. Fundamentals of Nursing. 6 hrs.
This course is designed to introduce the beginning student to the nursing process and its application in clinical practice. The lecture portion presents those concepts essential to the practice of nursing. The laboratory experiences involve the implementation of skills related to basic needs and life processes. (4 hours class, 6 hours lab.) PR: Admission to the nursing program. CR: BIOL 1170, FOSM 2200. Fall semester only.

NURS 1102. Transition for Licensed Practical Nurses. 1 hr.
This course introduces the concepts and processes necessary to nursing practice. A major focus is on the nurse's role and the transition

from licensed nurse to registered nurse. PR: Enrollment in the Associate Degree Nursing Program at Fairmont State College, and status as a Licensed Practical Nurse or a graduate of a practical nursing program. Fall semester only.

NURS 1104. Adult Health I. 4 hrs.

This course is designed to help students develop knowledge of common adult health problems and to use the nursing process to promote good health in patients. Emphasis is placed on the following life processes: protective function (perioperative and oncology) and metabolism (diabetes and endocrine). Other life processes are considered as they apply throughout the course. Selected laboratory experiences in caring for hospitalized clients will enable the student to acquire knowledge and skills related to the theory studied and the student's individual interests. The student is expected to use knowledge and skills acquired in prerequisite courses. This course consists of four hours per week of class and 12 hours per week of lab. PR: NURS 1101. Concurrently: Allied Health 1106, BIOL 2205. A current Basic Life Support Card is required. Spring semester only, first eight weeks.

NURS 1105. Adult Health II. 4 hrs.

A continuation of NURS 1104, this course is designed to help students develop knowledge of common adult health problems and to use the nursing process to promote good health in patients. Emphasis is placed on the following life processes: sensorimotor/musculoskeletal, elimination/gastrointestinal and development/reproductive. Other life processes are considered as they apply throughout the course. Selected laboratory experiences in caring for hospitalized clients will enable the student to acquire knowledge and skills related to the theory studied and the student's individual interests. The student is expected to use knowledge and skills acquired in prerequisite courses. This course consists of four hours per week of class and 12 hours per week of lab. Spring semester only, second eight weeks.

NURS 1106. Mastery of Adult Health I. 2-4 hrs. (Variable)

This theory-based course is designed to readdress concepts and information presented in NURS 1104. This course will also focus on test-taking, study skills, and active learning techniques. This is a two-week course offered in the summer. (Total 32 lecture hours)

NURS 1107. Mastery of Adult Health II. 2-4 hrs. (Variable)

This theory-based course is designed to readdress concepts and information presented in NURS 1105. This course will also focus on test-taking, study skills, and active learning techniques. This is a two-week course offered in the summer. (Total 32 lecture hours)

NURS 1199. Special Topics in Nursing. 1-12 hrs.

This course is concerned with special studies in selected topics, to be determined by the instructor and approved by the School's chairman. Credits earned will be applicable as free electives in degree and certificate programs. Offered as needed.

NURS 2201. Psychiatric Nursing. 6 hrs.

This course is a study of the concepts of mental health and common problems of mental illness as they affect the individual and the family. Selected laboratory experiences enable the student to meet the needs of hospitalized clients with functional disorders. This course stresses self-awareness, improving therapeutic communication skills and establishing interpersonal relationships. Topics also include common maladaptive behavioral patterns, current therapies and community mental health resources. The life processes of protective function, psychosocial environment and developmental concepts are addressed as they apply throughout the course. This is a four-week course offered in the summer. (Total 55 lecture hours, 70 hours lab.) PR: BIOL 2205, PSYC 1101. Summer only.

NURS 2204. Trends in Nursing. 2 hrs.

This is a course designed to promote an understanding of the major trends and problems affecting nursing: historical, political, social, economic, legal, educational, professional and personal. Current issues and career opportunities also will be discussed. Emphasis will be placed on legal rights and responsibilities and ethical decision-making. PR: NURS 2201. Fall semester only.

NURS 2205. Maternity Nursing. 4 hrs.

An introduction to the physiological, psychological and social changes related to the nursing process as it affects both the childbearing mother and the family unit. Emphasis is placed on normal life processes, with comparison to the abnormal. Antepartal and postpartal experiences include observation in physicians' offices and clinics. Experiences in labor and delivery, immediate postpartal and neonatal care are provided in a hospital setting. Eight weeks. (4 hours class, 12 hours lab.) Spring semester only.

NURS 2206. Nursing of Children. 4 hrs.

This course is designed to help the student gain a better awareness of the sequence of normal growth and development during the life processes of childhood. Students will examine health problems, disorders and illnesses common to children in each stage of development, from infancy through adolescence. A family-centered approach to child care, utilizing the nursing process, is emphasized. Special consideration is given to preventive and teaching aspects of concern to the patient and family. Selected clinical experiences will include care of children in health facilities, as well as in other community agencies. Eight weeks. (4 hours class, 12 hours lab.) Spring semester only.

NURS 2207. NCLEX Review. 1 hr.

This course is designed to improve decision-making and critical thinking skills. It includes classroom practice to develop test-taking skills and computer review of specified software programs designed to prepare graduates for the national nursing licensure examination. This course is required for students who do not achieve a satisfactory performance level on medical/surgical achievement exams. This course may be taken for elective credit by students in the last semester of the associate-degree nursing program, or students planning to retake the NCLEX-RN. Spring semester only, for eight weeks.

NURS 2222. Adult Health III. 4 hrs.

A continuation of NURS 1105, this course is designed to help students develop knowledge of common adult health problems and to use the nursing process to promote good health in patients. Emphasis is placed on oxygenation (vascular/hematologic, respiratory and cardiac). Other life processes are considered as they apply throughout the course. Selected laboratory experiences in caring for hospitalized clients will enable the student to acquire knowledge and skills related to the theory studied and the student's individual interests. Students will develop their roles as managers of care through involvement in team nursing. They will explore the concepts of leadership, delegation and collaboration while assuming the roles of team leader, medication nurse and patient educator. (4 hours class, 12 hours lab). PR: NURS 1104, 1105, 2201. A current Basic Life Support card is required. Fall semester only, first eight weeks.

NURS 2223. Adult Health IV. 4 hrs.

A continuation of NURS 2222, this course is designed to help students develop knowledge of common adult health problems and to use the nursing process to promote good health in patients. Emphasis is placed on the following life processes: sensori-motor (neurological and eye/ear), elimination (renal), and protective function (burns). Other life processes are considered as they apply throughout the course. Selected laboratory experiences in caring for hospitalized clients will enable the student to acquire knowledge and skills related to the theory studied and the student's individual interests. Students will develop their roles as managers of care through involvement in team nursing. They will explore the concepts of leadership, delegation and collaboration while assuming the roles of team leader, medication nurse and patient educator. (4 hours class, 12 hours lab). PR: NURS 2222. A current Basic Life Support card is required. Fall semester only, second eight weeks.

NURS 2224. Mastery of Adult Health . 2 hrs.

This theory-based course is designed to readdress concepts and information presented in NURS 2222, Adult Health III. This course will also focus on test-taking, study skills, and active learning techniques. This is a two-week course offered between fall and Spring semesters. (Total 32 lecture hours)

NURS 2225. Mastery of Adult Health . 2 hrs.
This theory-based course is designed to readdress concepts and information presented in NURS 2223, Adult Health IV. This course will also focus on test-taking, study skills, and active learning techniques. This is a two-week course offered between fall and spring semesters. (Total 32 lecture hours)

NURS 3320. Health Assessment. 4 hrs.
This course is designed to help students develop skills as providers in health/physical assessment. It includes assessment techniques, how to assess clients of various racial and cultural groups and the assessment of clients across the life span. The nursing process and critical thinking skills are used to synthesize information to promote health potential. Faculty-supervised campus laboratory experience is employed to develop students' skills. (2 hours lecture, 4 hours lab.) PR: Admission to the Nursing program or instructor's consent. Fall semester only.

NURS 3330. Health Deviations. 3 hrs.
This course covers pathophysiologic mechanisms and their effect upon health potential. With the help of case studies, students will apply theoretical knowledge to patient situations through utilization of the nursing process. (3 hour lecture.) PR: Admission to the Nursing program or instructor's consent. Spring semester only.

NURS 3350. Professional Nursing Concepts. 3 hrs.
This course is designed to assist the registered nurse in exploring concepts and theories relevant to professional nursing. Areas explored include theories of nursing, beliefs, assumptions and values of the nurse-client relationship, socialization to the professional nursing role, health and health care delivery systems and the nursing process. (3 hour lecture.) PR: Admission to the Nursing program and Nursing 3320 or concurrent enrollment. Fall semester only.

NURS 3360. Complex Nursing Situations. 4 hrs.
This course focuses on developing critical thinking skills and applying them to complex nursing situations. It will include ethics and their application to nursing practice. (Total 30 hours lecture, 60 hours lab.) PR: NURS 3330, 3350. NURS 3330 may be taken concurrently with NURS 3360 and concurrently with CHEM 1101 or SCIE 1110. Spring semester only.

NURS 3399. Special Topics in Nursing 1-12 hours
This course is concerned with special studies in selected topics, to be determined by the instructor and approved by the School's chairman. Credits earned will be applicable as free electives.

NURS 4400. Research in Nursing Practice. 3 hrs.
This course analyzes the scientific process, with emphasis on its application to nursing. Students will develop an understanding of the logical process of research, reasoning and the scientific inquiry necessary to carry out studies of nursing interest. (3 hour lecture.) PR: PSYC 2240, NURS 3360. Fall semester only. NURS 4400 and PSYC 2240 may be taken concurrently.

NURS 4410. Community Health Nursing. 6 hrs.
This course focuses on the theories and principles underlying current community health nursing practices. Emphasis is placed on the client and family, including appropriate nursing intervention for individuals, families and groups in outpatient settings and in the home. Topics include application of the nursing process to community-based intervention in health maintenance, health promotion and restoration, and utilization of community resources. (3 hour lecture, 6 hours lab.) PR: NURS 3360 and NURS 4400 or concurrent enrollment. Fall semester only.

NURS 4430. Leadership and Management in Nursing Practice. 3 hrs.
This course explores theories of leadership and management as they relate to nursing and health potential. Emphasis is given to strategies appropriate for the individual, family, groups and the community in the practice setting. The course also includes an examination of motivational theories, role development, group processes, change theory and communication skills, as well as authority and accountability. (3 hour lecture.) PR: MGMT 2209 or 3308, and NURS 4400. Spring semester only.

NURS 4440. Nursing Practicum. 6 hrs. Writing Intensive
This course assists students in the integration of theory and practice as they approach completion of the nursing major. Students choose a clinical area to carry out nursing activities that promote health potential. Goals include development of autonomy in nursing practice, skill in clinical decision making and judgment and professional role development. (2 hour lecture, 8 hours lab.) PR: MGMT 2209 or 3308, and NURS 4410 or concurrent enrollment in NURS 4430. Spring semester only.

NURS 4441. School Nurse Practicum. 4 hrs.
The School Nurse Practicum is designed to help Registered Nurses meet West Virginia Board of Education standards for practicing school nurses. This specialization prepares nurses for their role in health restoration, maintenance and promotion and as an advocate for children and families. PR: Graduate of Nursing program, EDUC 2200 or concurrent enrollment in NURS 4441. (One hour lecture, 6 hours lab.)

NURS 4499. Special Topics in Nursing. 1-12 hrs.
This course is concerned with special studies in selected topics, to be determined by the instructor and approved by the School's chairman. Credits earned will be applicable as free electives.

OFFICE MANAGEMENT & TECHNOLOGY

OFAD 1100. S-C&TC Microcomputer Keyboarding. 3 hrs.
This course is designed to teach the touch control method of the alpha/numeric keyboard for the typewriter and microcomputer, as well as the ten-key numeric keypad. This course includes development of speed and control, vertical and horizontal centering, simple tabulation, memoranda, letters, reports, tables and interpretation of proofreader's marks. Open to all students.

OFAD 1199. S-C&TC Special Topics in Office Management & Technology. 1-12 hrs.
Studies in special selected topics, to be determined by the instructor and approved by the Business Technology Coordinator. Credits earned will be applicable as free electives in degree and certificate programs.

OFAD 2232. S-C&TC Word Processing Applications. 3 hrs.
This course will provide advanced word processing applications on a microcomputer with emphasis on formulating standard documents and printing using various printers. It provides an extensive hands-on approach to word processing functions such as: merging documents; creating styles, outlines, tables, and tables of contents; collaborating with others; customizing your work with features such a macros and AutoText; creating web pages; creating on-screen forms, and managing long documents. Completion of this course will provide students with the skills needed to attain Microsoft Office Specialist Certification in Word. PR: INFO 1100

OFAD 2233. S-C&TC Database Applications. 3 hrs.
This course is designed to provide a foundation in the latest methods and systems of retrieving information and in planning, organizing and controlling integrated records retention systems in the electronic office. Simulated activities are designed to give students practice in microcomputer storage and retrieval, utilizing appropriate software. Completion of this course will provide students with the skills needed to attain Microsoft Office Specialist Certification in Access. May be used as a business elective.

OFAD 2240. S-C&TC Administrative Office Procedures. 3 hrs.
This course is an integrated approach to the required procedures in a business establishment. The course provides information on business principles and promotes a high standard of office ethics. Topics include telecommunications, mail processing, records management, conference setting, travel arrangements and office machine use including calculators, transcribers and reprographic equipment. PR: OFAD 2232.

OFAD 2241. S-C&TC Workplace Productivity. 3 hrs.

This course is designed to allow the student to synthesize the concepts and principles offered in the various disciplines of study within the Department of Business Technology. It will focus on the major office applications found in suite software/word processing, electronic presentations, spreadsheets and databases. Students will participate in exercises that use these applications to show the real-world significance of the software. In addition to computer applications, students will develop the critical thinking and decision-making skills which are expected of today's office support personnel. PR: OFAD 2233, OFAD 2240, INFO 2220.

OFAD 2242. S-C&TC Professional Internship and Portfolio Development. 3 hrs.

The purpose of this course is to allow students to bring business topics into focus by using all their collected business knowledge. This will be accomplished through completion of a portfolio that will demonstrate to prospective employers the student's career preparation. The student will also be required to complete a professional internship; a total of 140 hours of supervised work will be required. The importance of career and goal planning will be emphasized. PR: Instructor Consent.

OFAD 2245 S-C&TC Microsoft Office Specialist Certification Preparation. 1-6 hrs.

This course provides review and preparation for Microsoft Office Specialist Certification exams. One-hour credit will be awarded for preparation and attempt of one exam. The exams include Word, Excel, Access, PowerPoint, and Outlook (2000, 2002, or 2003 versions). A maximum of three hours of credit may be awarded in a semester. Each one hour of credit will require students to attend 15 hours of class time. Grading will be credit/no credit. Course content will include concept review for the exam being attempted, test taking guidance and tips, and simulated exam preparation. The course will be taught by a certified instructor with input from certified students. Students are required to attempt the exam to receive credit. Exams may be attempted at the Fairmont State Center for Workforce Education or any approved testing center.

OFAD 2248 S-C&TC Business Essentials. 3 hrs.

Students must possess many tangible and intangible attributes in order to obtain and maintain successful employment in today's workforce. Potential candidates must possess not only the technical skills essential to that particular employment field, but must also possess the "soft skills" that employers seek. This course incorporates four "soft skills" that are essential to employability—Professional Image, Professional Etiquette, Professional Documents, and Business Ethics. Professional Image incorporates overall presence, appearance, and dress. Professional Etiquette includes customer relations/ diplomacy, interacting with people, dining, and gift giving. Professional Documents addresses the all-important topics of business English/grammar, editing, and proofreading. Business Ethics approaches ethical decisions of the employee as well as the organization. This course provides useful and timely topics for job-seeking students in all programs of study.

OFAD 2250. S-C&TC Desktop Publishing. 3 hrs.

A beginning course which provides a foundation in the basic principles of page layout and design, as well as typographical conventions, coupled with hands-on use of computer hardware and applications. Students will learn desktop publishing skills by completing several practical projects.

PARALEGAL STUDIES

PARA 1101 Introduction to Paralegal Studies. 3 hrs.

This course is an introduction to the American legal system and an overview of legal topics including Constitutional, Criminal, Domestic Relations, Property, and Tort Law. The course will also provide the students with an understanding of the various roles and career options of the paralegal professional, legal ethics, and interviewing and investigation skills.

PARA 1102 General Law I. 3 hrs.

This course is an introduction to the federal and state legal systems. Information on the legislation and enforcement of laws as well as an introduction to legal reasoning and legal terminology will be covered. An overview of civil law, procedures and jurisdiction will be included.

PARA 1103 General Law II. 3 hrs.

This course is a continuation of General Law I and will provide a general overview on substantive areas of law including: contracts, property law, forms of business, estates and the probate process, family law, criminal law and procedure. PR: PARA 1102.

PARA 2201 Legal Research and Writing I. 3 hrs.

This course is an introduction to legal research, analysis, and writing methods. Students will learn how to brief a case, analyze case law, statutes, and/or regulations, research legal issues using a law library, prepare legal correspondence documents and pleadings. PR: ENGL 1108.

PARA 2202 Legal Research and Writing II. 3 hrs.

This is an intermediate course in which students will perform legal research, analysis, and writing methods. Students will analyze case law, statutes, and/or regulations, research legal issues using Lexis-Nexis and other electronic resources, and prepare an appellate brief. PR: PARA 2201.

PARA 2203 Computer Applications for Legal Professionals. 3 hrs.

Overview of software applications used in a law office including calendar, docket control, litigation support, billing, timekeeping, pleadings preparation, legal research, and other applications. PR: INFO 1100.

PARA 2204 Civil Litigation and Procedure. 3 hrs.

This course provides an overview of the civil litigation process from initial interview through trial including preparation of pleadings and trial documents. The course also includes the study of the rules of civil procedure. PR: PARA 1102.

PARA 2210 Domestic Relations Law. 3 hrs.

This course provides students with an understanding of legal issues regarding the family including marriage, common law marriage, and alternatives to marriage; premarital contracts, rights and responsibilities of spouses, and reproductive rights; annulment, legal separation, and divorce; spousal support, child support, and child custody; and adoption, paternity, and domestic violence. The course also requires students to prepare pleadings associated with the law of domestic relations. PR: PARA 1103

PARA 2211 Administrative Advocacy. 3 hrs.

This course provides students with knowledge of how to prepare and present a case to state and federal governmental agencies that allow non-lawyer advocacy. Techniques for legal interviewing will be included.

PARA 2212 Torts. 3 hrs.

This course provides students with a basic understanding of Intentional Torts including harms to the person and to property interests, Negligence, Strict Liability, Products Liability, other torts and defenses. PR: PARA 1103

PARA 2213 Property and Probate. 3 hrs.

This course provides students with an overview of the process and documents involved in the transfer of assets. Topics include trusts, wills and gifts, administration of decedent's estates, probate procedure, federal and state death and income taxes, and fiduciary accounting and responsibilities. PR: PARA 1103.

PARA 2214 Bankruptcy Law. 3 hrs.

This course provides an overview of the substantive law of bankruptcy including the procedure for filing bankruptcy. PR: PARA 1103.

PARA 2220 Paralegal Professional Practicum. 3 hrs.

This cooperative practicum allows students the opportunity to apply classroom learning to a work environment where they will acquire es-

sential and practical paralegal skills under the supervision of a legal professional. The practicum requires a minimum of 135 hours of supervised work. PR: Permission.

PHILOSOPHY

PHIL 1199. Special Topics in Philosophy. 1-12 hrs.
The topic to be studied will be determined by the instructor and approved by the chairperson. Credits earned will be applicable as free electives in degree and certificate programs.

PHIL 2200. S-FSU Introduction to Philosophy. 3 hrs.
A survey of the principal problems and theoretical responses which have come from man's attempts to organize his experience and direct his existence. The ideas of individual thinkers (Socrates, Plato, St. Augustine, Bruno, Locke, Sartre, Heidegger, et al.) and schools of interpretation (rationalist, empiricist, pragmatic) are highlighted.

PHIL 2250. S-FSU Great Philosophers. 3 hrs.
A survey of the historical development of western philosophical thought from ancient Greece to the twentieth century. This course is a continuation of PHIL 2200, covering the issues and philosophers in more analytical detail. The focus is on developing trends of thought as exhibited by the methods of the great philosophers, and the corresponding challenges presented by their critics.

PHIL 3325. Ethics. 3 hrs.
A study and evaluation of classical and contemporary theories of right and wrong, good and bad and inhuman conduct, with emphasis on the implications of these theories for resolving contemporary moral problems. The corrosion of dogmatic ethical positions through skepticism and relativism is examined, and helpful responses are introduced. Students will discuss problems in medical ethics as well.

PHIL 3350. Comparative Religion. 3 hrs.
Description and analysis of the philosophical thought underlying the major religions of the world.

PHIL 4475. Philosophy of History. 3 hrs.
A survey of the philosophical positions, both speculative and analytical, that have been advanced to evaluate humanity's historical understanding and experience. Credit in either philosophy or European history.

PHIL 4400. Seminar. 3 hrs.
Research and reading for advanced students. Participants are required to write a paper on a philosophical issue of their interest.

PHYSICAL EDUCATION

PHED 1100. S-FSU Fitness and Wellness. 2 hrs.
This course is designed to provide an opportunity for students to make intelligent choices concerning lifelong wellness and to achieve optimum levels of fitness through regular exercise, proper nutrition, weight control and stress management.

PHED 1101. Basic Physiological Conditioning-Health. 1 hr.
This course covers the analysis, application and integration of basic physical conditioning and health concepts. The course is offered in eight-week sessions.

PHED 1102. Weight Training/Lifting. 1 hr.
The analysis and application of the rules, boundaries, strategies, psychomotor skills and safety aspects of the individual sport of weight training/lifting are studied. The course is offered in eight-week sessions.

PHED 1120. Basketball (Beginning). 1 hr.
An introduction to the analysis and application of the rules, boundaries, strategies, psychomotor skills and safety aspects of the team sport of basketball. This course is offered in eight-week sessions.

PHED 1121. Introductory Seminar in Human Movement. 2 hrs.
General survey of instructional and non-educational professional career alternatives available within physical education. Students will discuss issues, trends, history, philosophy, and future career directions in physical education.

PHED 1126. Tennis (Beginning). 1 hr.
The student will be introduced to basic skills, rules, boundaries, game situations and team play.

PHED 1130. Flag Football. 1 hr.
Addresses the analysis and application of the rules, boundaries, strategies, psychomotor skills and safety aspects of the team sport of flag football. This course is offered in eight-week sessions.

PHED 1140. Golf. 1 hr.
This course focuses on the analysis and application of the rules, boundaries, strategies, psychomotor skills and safety aspects of the individual sport of golf. This course is offered in eight-week sessions.

PHED 1144. Racquetball. 1 hr.
The analysis and application of the rules, boundaries, strategies, psychomotor skills and safety aspects of the individual sport of racquetball are studied. This course is offered in eight-week sessions.

PHED 1162. Softball. 1 hr.
The analysis and application of the rules, boundaries, strategies, psychomotor skills and safety aspects of the team sport of softball are studied. This course is offered in eight-week sessions.

PHED 1199. Special Topics in Physical Education. 1-12 hrs.
Special topics will be studied, to be determined by the instructor and approved by the School's chairman. Credits earned will be applicable as free electives in degree and certificate programs.

PHED 2211. Anatomy and Physiology. 4 hrs.
An introduction to the basic knowledge of the structure and functions of the human body and the changes that occur during physical activity and sport. PR: BIOL 1101-1102.

PHED 2212. Physiology of Exercise. 3 hrs.
This course investigates the knowledge of basic physiological adaptations that accompany physical activity and sport. PR: PHED 2211.

PHED 2223. Evaluation of Instruction in Sport. 2 hrs.
A study of the evaluative process pertinent to the instruction of sport activities. Further emphasis is placed on the formation of objectives, construction and selection of tests, computation of statistical scores and appraisal of total program effectiveness.

PHED 2232. Basic Aquatics. 2 hrs.
Introduction to the knowledge and skills necessary to become proficient and safe in or on the water.

PHED 2233. Advanced Aquatics-Lifeguarding. 2 hrs.
Basic and advanced swimming strokes are examined, with an emphasis on achieving proficiency in lifeguarding techniques. Does not apply to Recreation minor. Successful completion of this course is required for Red Cross certification.

PHED 2234. Individual and Dual Sports I. 2 hrs.
The rules, boundaries, strategies and psychomotor skills characteristic of the sport forms are analyzed and applied to the following: golf, racquetball, handball, squash and bowling.

PHED 2235. Team Sports I. 2 hrs.
The rules, boundaries, strategies and psychomotor skills characteristic of the sport forms are analyzed and applied to the following: basketball, flag football, baseball and speedball.

PHED 2236. Team Sports II. 2 hrs.
The rules, boundaries, strategies and psychomotor skills characteristic of the sport forms are analyzed and applied to the following: volleyball, field hockey, softball and soccer.

PHED 2239. Individual and Dual Sports II. 2 hrs.
The rules, boundaries, strategies, and psychomotor skills characteristic of the sport forms are analyzed and applied to the following: track and field, tennis, table tennis and badminton.

PHED 2240. Outdoor Leisure Activities. 2 hrs.
Safety, knowledge and skills specific to the area of outdoor leisure activities are analyzed and applied in the following sports: archery, horseshoes, hiking, backpacking, orienteering, camping and others.

PHED 2241. Gymnastics and Dance. 2 hrs.
This course analyzes and applies safety, instructional strategies, and skill techniques characteristic of gymnastics and dance in basic tumbling, fundamental jazz and aerobic dance.

PHED 3313. Biomechanics. 3 hrs.
The study of humans in motion, including the structures that are responsible for motion and the forces that influence human motion. PR: PHED 2211.

PHED 3316. Fitness Assessment and Exercise Prescription. 3 hrs.
The study of methods of determining fitness levels, developing safe exercise programs and developing and administering group exercise/wellness programs. Emphasis is placed on evaluation techniques and exercise prescription. PR: PHED 2211, 2212.

PHED 3318. Sport Social Psychology. 2 hrs.
Students explore topics related to the social and psychological aspects of physical activity and sport. PR: SOCY 1110, PSYC 1101.

PHED 3320. Lifespan Motor Development. 3 hrs.
The course will study changes in motor behavior over the human lifespan and the processes which underlie these changes. Emphasis will be placed on current issues and research in motor development. PR: PHED 1121.

PHED 3323. Early Psychomotor Curriculum. 3 hrs.
This course examines the analysis and application of instructional strategies, psychomotor skills and patterns characteristic to the elementary physical education curriculum in the following areas: movement education, fundamental and manipulative skills, rhythmic activities and sport lead-up games.

PHED 3325. Psychomotor Analysis Lab. 3 hrs.
Writing Intensive
An application and analysis of teaching models and evaluation techniques to a sport environment in order to facilitate affective, cognitive, social, and psychomotor learning outcomes. Practical teaching experience in the psychomotor domain is provided. PR: PHED 3323.

PHED 3326. Early Psychomotor Development. 2 hrs.
An analysis of the growth, development, and maturation of cognitive, psychomotor, affective and social sport behaviors of children. Students will explore activities pertinent to early childhood experiences.

PHED 3342. Field Experience in Adapted Physical Education 2-4 hours
A field experience in working with institutions and organizations which provide services to the handicapped. Variable credit is dependent upon the nature and duration of the field experience. PR: PHED 3343.

PHED 3343. Adapted Physical Education Activities. 2 hrs.
Instructional strategies in modifying physical skills to meet the needs of the disabled are analyzed and applied in an activity lab setting.

PHED 3353. Field Experience in Sport Coaching 2-4 hrs.
Field experience will be provided to involve the student as an intern coach in either an intercollegiate or interscholastic sport program.

PHED 3354. Sports Officiating. 2 hrs.
This course involves the technical and theoretical aspects of sport officiating. The first-semester course will emphasize men's regulations common to the sport; the second semester will emphasize women's regulations common to the sport.

PHED 3355. Scientific Foundations of Sport Coaching. 4 hrs.
The student will examine basic human physiological adaptations that occur during participation in sport activities. Basic mechanical laws and principles and their application to the performance of sport activities will be studied.

PHED 3356. Administration and Coaching of Sport. 3 hrs.
This course focuses on basic psychological, philosophical and technical knowledge and its relationship to the coaching of sport activities. Further emphasis will be placed on the principles and practices that are required in the planning, organization and administration of sport programs.

PHED 3357. Medical-Legal Aspects of Sport Coaching. 2 hrs.
A study of anatomical and physiological concepts related to the prevention and care of physical trauma which occur in sport activities. Students will examine legal aspects of injury prevention and care as they are related to the sport programs.

PHED 3358. Techniques of Sport Coaching. 6 hrs.
A presentation of sport skill techniques in combination with the theoretical aspects of sport coaching. A field experience in sport coaching will be provided through an internship in two selected intercollegiate or interscholastic sports programs.

PHED 3365. Activities in Outdoor Education. 1-3 hrs.
This course provides experience in outdoor education, including backpacking, canoe-camping, rock climbing and other activities. Each weekend will be spent at a different location to develop a variety of outdoor educational skills.

PHED 3366. Field Experience in Outdoor Education. 1-3 hrs.
This course offers extended outdoor educational experiences, including Appalachian Trail, river canoe- camping trips, and others. Credit will vary according to the length of the experience. PR: PHED 3365.

PHED 4371. Principles of Athletic Training. 3 hrs.
Students will learn basic competencies related to the controlling and managing of sport-related injuries, including presentations of prevention and treatment of these injuries. PR: PHED 2211, 2212.

PHED 3372. Field Experience in Athletic Training. 2-4 hrs.
Experiences in athletic training procedures and techniques with college and secondary school athletic teams are provided. Variable credit is dependent upon the nature and duration of the internship. PR: PHED 3371.

PHED 3399. Sport Management Internship. 3 hrs.
This course comprises a directed internship in a particular area of specialization. Students will complete the internship in cooperation with a community agency or business, clinic, or other appropriate organization. Direct observation and on-the-job experience, through active participation in ongoing programs, will enable students to broaden their scope beyond the classroom.

PHED 4400. Research Methodology. 3 hrs.
Introductory course in the planning and implementation of research in the study of human performance. Students will consider the topics of variables and hypotheses, research designs, data collection, analysis and interpretation. PR: All required PHED coursework below 4400 level.

PHED 4410. Research Design Seminar. 3 hrs. Writing Intensive
Survey of research in the historical, administrative, performance, motor development, philosophical, psychological and sociological issues in the current literature in the study of human movement. The student will select and design a research project in one of the specific areas. PR: PHED 4400.

PHED 4420. Exercise Science I. 3 hrs.
The purpose of this internship is to provide students with the opportunity to gain practical experience in the field of fitness/wellness. This culminating experience allows students to apply theoretical knowledge to a "real-life" situation under the supervision of professionals currently in the fitness/wellness field. PR: All pre-4400-level coursework.

PHED 4431. Methods and Materials in Teaching Health and Physical Education. 3 hrs.
Curriculum, materials and techniques for teaching all grade levels of physical education and health are examined. Practical experience in the schools required. PR: PHED 3325.

PHED 4450. Advanced Sport. 1 hr.
This course is opened only to students with sufficient background in the techniques and methods of an indicated sport. Credit is not to be awarded until the student has attained junior standing and can be received only once during a student's academic career. This course is for elective credit only and cannot be used to fulfill the requirements in any degree program.

PHYSICAL THERAPIST ASSISTANT

PHTA 1100 Introduction to Physical Therapy. 2 hrs.
History of the physical therapy profession and survey of general physical therapy services. Legal and ethical requirements for the physical therapist assistant are introduced. The Americans with Disabilities Act and architectural barriers are studied. Majors only.

PHTA 1101 Patient and Professional Relationship. 2 hrs.
Recognition of the reactions of the health care worker, patient, and family to illness and disability is discussed. The influence of race, class, age, ethnic origin, and gender on the physical therapist assistant and patient relationship is explored. The stages of adjustment to disability and death and dying are described. Communication skills between PTA, patient, family, and other health care providers are developed. PR: PHTA 1100. Majors only.

PHTA 1102 Introduction to Patient Care. 3 hrs.
An introduction to basic patient care procedures such as positioning, transferring, ambulating, dressing, fitting ambulation aids, and taking vital signs. Universal Precautions, isolation, and aseptic principles will be presented. Skills in basic note writing will be developed. PR: PHTA 1100. Majors only.

PHTA 1103 Techniques I. 3 hrs.
This course includes the lecture and lab study of thermal agents, compression, and massage. Skills in surface anatomy and goniometry are developed. Upon completion, students are able to correctly and safely apply these techniques in a laboratory setting while assessing the physiologic response and observing indications and contraindications. Note writing skills are further developed. PR: PHTA 1100. Majors only.

PHTA 1104 Techniques II. 2 hrs.
Therapeutic modalities are continued. Topics include electrical stimulation, traction, and manual muscle testing. Upon completion students can safely and effectively apply these techniques in a laboratory setting, write appropriate progress notes, and demonstrate knowledge of the physiological principles involved. PR: PHTA 1103. Majors only.

PHTA 1105 Kinesiology. 3 hrs.
This course provides a study of human movement and related mechanical principles. Topics include detailed musculoskeletal anatomy and physiology. Upon completion, student will be able to analyze a functional task and identify component joint motions and muscle actions. PR: PHTA 1100. Majors only.

PHTA 1106 Clinical Education I. 1 hr.
Initial clinical experience for students. Forty hours spaced throughout the semester introduces the various settings of a physical therapy practice - acute care, transitional care, out-patient clinic, home health, skilled nursing facility, rehabilitation unit, and the school system. The student may participate in the clinic's activities only if their skills have been checked-off in the course laboratory setting. Majors only.

PHTA 1108 Clinical Education II. 2 hrs.
A concentrated ten day, eighty hour clinical experience dedicated to modality application and the study of goniometry and manual muscle testing. The student will be assigned to a clinical setting that utilizes the modalities studied. The student will begin to assess patient response to treatment and be prepared to adjust the therapeutic intervention accordingly. PR: PHTA 1104. Majors only.

PHTA 2200 Techniques III. 4 hrs.
The principles and techniques of therapeutic exercise will be introduced. Topics also include gait analysis, posture assessment, and chest physical therapy. Upon completion the student will plan, implement, and assess the response to an exercise plan in a laboratory setting. PR: PHTA 1104. Majors only.

PHTA 2201 Techniques IV. 4 hrs.
The dysfunctions caused by and intervention strategies for musculoskeletal disorders, amputations, wounds, and burns will be examined. Upon completion, the student will be able to combine previously and newly learned procedures and strategies to carry out an orthopedic care plan in a laboratory setting. PR: PHTA 1104. Majors only.

PHTA 2202 Techniques V. 4 hrs.
The dysfunctions caused by and intervention strategies for peripheral and nervous system disorders will be examined. Upon completion the student will be able to combine previously and newly learned procedures and strategies to carry out a neurologic care plan in a laboratory setting. PR: PHTA 1104. Majors only.

PHTA 2204 Clinical Education III. 3 hrs.
This rotation consists of one hundred twelve hours over a three week period that will allow the student to begin the process of working within the physical therapy Plan of Care. The emphasis will be to implement, develop, and progress a therapeutic exercise program for the patient to address the impairments of decreased range of motion, decreased strength, decreased endurance, or motor control deficit. PR: PHTA 2202. Majors only.

PHTA 2205 Capstone Seminar. 2 hrs.
This intense five week seminar examines the expectations for an entry level physical therapist assistant and focuses on preparation for clinical rotations and entry into the profession. Previously learned and new material relating to safety, plan of care, communication, professional behavior, and knowledge are tied to the role of the PTA. PR: PHTA 2204. Majors only.

PHTA 2206 Clinical Education IV. 5 hrs.
This five week, 200 hour clinical assignment allows the student to apply all previously learned theory and skills to patient care in a clinical setting. Each student is assigned to a clinical center to perform physical therapy modalities and procedures on a variety of patients. PR: PHTA 2202. Majors only.

PHTA 2207 Clinical Education V. 5 hrs.
This final five week, 200 hour clinical assignment continues with the correlation of the classroom/laboratory experiences to patient care. The progression of the student's skills to "entry level" will be monitored closely. Each student is assigned to a clinical center to perform physical therapy modalities and procedures on a variety of patients. PR: PHTA 2202. Majors only.

PHYSICAL SCIENCE

PHSC 1199. Special Topics in Physical Science. 1-12 hrs.
Studies in special selected topics, to be determined by the instructor and approved by the department chair. Credits earned will be applicable as free electives in degree and certificate programs.

PHSC 2201. Exosphere. 4 hrs.
This course is designed to provide elementary education majors with an understanding of the interrelationships of matter and energy, and the earth in space. The Exosphere theme will focus primarily on astronomy and physics, while incorporating topics in earth science and biology. Class periods will be structured around the three-stage learning cycle, modeling constructivist teaching methods. Four hours of lecture/ discussion/activities per week. PR: BIOL 1104 with a C or better and admission to Elementary Education. Fall semester only.

PHSC 2202. Geosphere. 4 hrs.
This course is designed to provide elementary education majors with an understanding of the dynamic earth and its matter. Students will primarily focus on earth science and chemistry topics, while integrating biology concepts and physics topics such as balanced and unbalanced forces, magnetism, friction, wave propagation and structure. Four hours of lecture/discussion/activities per week. PR: BIOL 1104 with a C or better and admission to Elementary Education. Spring semester only.

PHSC 4412. Elementary Science Methods. 3 hrs.
This course is designed to prepare pre-service elementary school teachers to teach science. Students will work with equity, authentic assessment, technology integration, safety, and science pedagogy including inquiry, constructivism and problem-based learning. Students will conduct a learning cycle-based lesson with elementary students during an after-school program, and will construct an integrated thematic unit for use in an elementary classroom. PR: Admission to the teacher education program and the following courses: PHSC 2201, 2202, all with a C or better.

PHSC 4431. Methods and Materials in Teaching Science. 3 hrs.
The course is designed for students preparing to teach science at the middle or secondary-school level. Students will develop and teach a science lesson to junior high school children in the Science Enrichment Program. They will become familiar with science curriculum in the middle and secondary schools, science teaching resources, test construction and classroom management skills, and will develop an instruction unit. PR: junior status, 2.75 GPA in science courses completed, and admission to Teacher Education. Spring semester only.

PHYSICS

PLEASE NOTE:
PHYS 1105/1106 substitutes for PHYS 1101/1102 in all programs. PHYS 1105/1106 is calculus based and is a more appropriate level of study than PHYS 1101/1102 for science majors and some technology majors.

PHYS 1101. S-FSU Introduction to Physics I. 4 hrs.
An introduction to elementary principles of mechanics, sound, and heat. A three-hour laboratory period each week supplements the three lecture-recitation periods. PR: MATH 1102 or MATH 1115 or MATH ACT 24 or MATH SAT 560 or Compass 67.

PHYS 1102. S-FSU Introduction to Physics II. 4 hrs.
A continuation of PHYS 1101; includes a study of electricity and magnetism, light and basic atomic and nuclear physics. PR: PHYS 1101.

PHYS 1105. S-FSU Principles of Physics I. 5 hrs.
Students are instructed in the elementary principles and calculus-based mathematical descriptions of matter and energy, including mechanics (linear and rotational motion, force, work and energy, harmonic motion), fluids, wave motion and thermal physics. A three-hour lab period supplements a four-hour weekly lecture. CR: MATH 1186 or MATH 3315 or TECH 3300. PR: MATH 1185 or MATH 1190 or TECH 2290 or MATH ACT 28 or MATH SAT 630 or Compass 89.

PHYS 1106. S-FSU Principles of Physics II. 5 hrs.
Students are instructed in the elementary principles and calculus-based mathematical descriptions of electricity and magnetism, light, optics and modern physics. A three-hour lab period supplements the four-hour weekly lecture. PR: PHYS 1105.

PHYS 1199. Special Topics in Physics. 1-12 hrs.
Studies in special selected topics, to be determined by the instructor and approved by the department chair. Credits earned will be applicable as free electives in degree and certificate programs.

PHYS 2201. Demonstrations in Physics. 2 hrs.
This course covers effective use of everyday materials to illustrate physical phenomena, experience with a variety of lecture equipment, and practice in planning and executing demonstrations. It is designed to serve teachers in both the elementary and secondary schools. PR: Program Restriction: Physics teaching specialization.

PHYS 2202. Astronomy. 3 hrs.
A study of the physical properties of the solar system, stars and galaxies, including the concepts of motion, space and time. Occasional night sessions. PR: PHYS 1102 or PHYS 1106.

PHYS 3310. Electricity and Electronics. 4 hrs.
A review of elementary direct and alternating current theory and transient responses of electrical components. Students are introduced to basic theory of vacuum tubes, semiconductors, amplifiers principles, and logic circuits. Two hours of laboratory and three hours of lecture each week. PR: PHYS 1102 or PHYS 1106.

PHYS 3325. Advanced Physics I. 4 hrs.
An in-depth, rigorous, calculus-based treatment of thermodynamics, mechanics (including Newtonian mechanics, one-dimensional dynamics, oscillatory motion, vector analysis and central forces) and wave motion. A two-hour lab period supplements the three-hour weekly lecture. The lab component provides open-ended, inquiry-based investigations along with greater responsibility for interpreting, utilizing and communicating results in the classroom. PR: (PHYS 1102 or PHYS 1106) AND (MATH 1186 or MATH 3315 or TECH 3300)

PHYS 3335. Advanced Physics II. 4 hrs.
An in-depth, rigorous, calculus-based treatment of modern physics, including relativity, particle-wave duality, electromagnetic radiation, Schrodinger's wave equation, atomic theory and nuclear physics. A two-hour lab period supplements the three-hour weekly lecture. The lab component provides open-ended, inquiry-based investigations along with greater responsibility for interpreting, utilizing and communicating results in the classroom. PR: (PHYS 1102 or PHYS 1106) AND (MATH 1186 or MATH 3315 or TECH 3300)

PHYS 3340. Special Problems. 2 hrs.
Individual studies of problems of special interest in the field of physics, for advanced students. PR: (PHYS 1102 or PHYS 1106) AND (MATH 1186 or MATH 3315 or TECH 3300)

PHYS 3350. Mathematical Methods of Physics. 3 hrs.
This course deals with the applications of vectors, vector algebra, vector analysis, differential calculus, integral calculus and differential equations to problems in physics and related scientific fields. PR: (PHYS 1102 or PHYS 1106) AND (MATH 1186 or MATH 3315 or TECH 3300)

POLITICAL SCIENCE

POLI 1101. Introduction to Global Affairs. 3 hrs.
A survey course focusing on the major global issues facing the world today, such as energy, environment, economy, food, population growth, technology and information, war, peace and human rights.

POLI 1103. S-FSU American Government. 3 hrs.
A survey of the American political system, dealing particularly with the form and function of the federal system.

POLI 1199. Special Topics in Political Science. 1-12 hrs.
Studies in special selected topics, to be determined by the instructor and approved by the chairperson. Credits earned will be applicable as free electives in degree and certificate programs.

POLI 2200. S-FSU Introduction to Political Science. 3 hrs.
A study of the fundamentals of politics and key issues, the concept of the state and its agent, government, types of political authority, the scope of governmental activities and the problem of world order.

POLI 2201. S-FSU Principles of International Relations. 3 hrs.
A study designed to acquaint the student with the theory and practice of international relations.

POLI 2203. S-FSU Comparative Government. 3 hrs.
This survey course is designed to foster a broad general acquaintance with the political institutions and government practices of certain nations.

POLI 2204. Introduction to Public Administration. 3 hrs.
An introductory study of the origins, structures, and processes of government administration. PR: POLI 1103.

POLI 2205. S-FSU State and Local Government. 3 hrs.
A study of the structure and function of American state and local governments. PR: POLI 1103.

POLI 2206. Public Planning in Appalachia. 3 hrs.
A study of federal-state relations, regional planning and development administration in West Virginia, the Appalachian Regional Commission, public program analysis and evaluation and images and realities of public planning in West Virginia.

POLI 2207. Public Budgeting and Government Finance. 3 hrs.
This course analyzes the political, economic and social aspects of budgeting, with particular emphasis on their relationships in West Virginia state and local government.

POLI 2209. Special Topics. 3 hrs.
An issue-oriented study of some germane matter in public administration. The course involves an extensive commitment to a single issue or policy area over the course of the semester.

POLI 2240. Nonparametric Statistics. 3 hrs.
This course introduces the student to the fundamental principles of descriptive and inferential statistics, with an emphasis on the analysis of nominal and ordinal data. Topics include nonparametric tests of significance, scaling, coding and a discussion of hypothesis construction. This course should be taken during the sophomore year. (Credit in either Political Science or Sociology.) PR is one of the following, with a grade of C or better:
(a) MATH 1100
(b) MATH 1107
(c) MATH 1112
(d) MATH 1115

POLI 3301. Comparative Public Administration. 3 hrs.
Utilizing the techniques of comparative analysis, this course explores the theory and practice of public administration in various cultures and political systems. Attention is centered on the practices of administration in American national, state and local governmental settings.

POLI 3303. Political Parties. 3 hrs.
A study of the origins, growth and development of American political parties. PR: POLI 1103.

POLI 3304. American Constitutional Government and Law. 3 hrs.
This course examines the development, interpretation and application of basic principles of constitutional law in the United States. The course will be concerned with the definition, extents and limitations of governmental powers and rights of Americans. PR: POLI 1103.

POLI 3305. American Political Theory. 3 hrs.
A study of the political literature which has given expression to the ideas of individual liberty enjoyed by American citizens.

POLI 3306. The American Presidency. 3 hrs.
This course will introduce the student to the institution of the American presidency and will also act as a comprehensive survey of the presidency. Students will examine several aspects of the office and a variety of views about the presidency. PR: POLI 1103.

POLI 3307. Congress and the Legislative Process. 3 hrs.
This course introduces the student to the institution of the Congress and the legislative process. Topics include the internal processes and structure of Congress, Congress-constituent connections and its relationship with other branches and levels of government. PR: POLI 1103.

POLI 3308. Public Personnel Administration. 3 hrs.
An examination of public personnel administration, with emphasis on such matters as the merit system, the historical development of public service, staffing, training, classification, the rights and obligations of public employees and the human-relations aspects of public management.

POLI 3310. Recent Political Theory. 3 hrs.
An analysis of the development and theoretical foundations of three major political ideologies of the nineteenth and twentieth centuries: Communism, fascism, and democracy.

POLI 3321. U.S. Foreign Policy. 3 hrs.
This course explores U.S. foreign policy formulation and considers policies by areas and functions. PR: POLI 1103.

POLI 3340. Political Science Research Methods. 3 hrs.
Writing Intensive
This course is designed to introduce the student to the methods of conducting replicable research in political science. Topics include research design, literature review, measurement criteria, data gathering, analysis and validity. The course will consist of lectures and exercises in the classroom, library and computer lab. PR: POLI 2240.

POLI 3350. International Law and Organization. 3 hrs.
A study of the structure and functions of international institutions and legal processes involved in the effort to maintain peace and security in the world.

POLI 3360. Government and Politics of the Far East. 3 hrs.
A study of political systems and developments in the countries of Communist and Nationalist China, South and North Korea and Japan, with emphasis on China. Students will consider such relevant aspects as the historical foundation, economic problems and foreign policy of the state.

POLI 3393. Future Global Crises. 3 hrs.
A team-taught, multi-disciplinary study of potential developments in the world. Areas of concentration are tailored to students' interests. Credit in Technology or Psychology.

POLI 4404. Civil Liberties in the U.S. 3 hrs.
A study of the nature and substance of civil liberties in the United States. The philosophy underlying the Bill of Rights will be analyzed and students will discuss the development of each of the great freedoms protected therein, such as free speech, free press, and free religion among others. Particular attention will be given to how the Supreme Court has interpreted and applied the guarantees contained within the Bill of Rights in specific instances. PR: POLI 1103.

POLI 4405. Terrorism. 3 hrs.
A course designed to give the student an understanding of the problem of terrorism and political violence. The course will define terrorism, examine its origins, characteristics, nature and trends, analyze in detail various terrorist organizations and address selected problems in the response to terrorism. Credit in Political Science or Criminal Justice.

POLI 4406. International Problems. 3 hrs.
This course covers the foreign policies of several nations and the machinery established for the peaceful adjudications of international differences.

POLI 4410. Problems in American Government. 3 hrs.
A study of current problems affecting the structure and function of American national government. PR: POLI 1103.

POLI 4411, 4412, 4413. Area Studies. 3 hrs.
Studies of selected areas or regions of the world, conducted on an interdisciplinary basis. The area selected and the time span studied will be determined by the instructor. PR: Instructor's consent if offered as an arranged class; no prerequisite required if class meets regularly.

POLI 4450. Practicum. 3-12 hrs.
A professional internship with a government or political agency, designed to give students pertinent experience in a particular field of political science. PR: POLI 1103, instructor's consent.

POLI 4470. Seminar in Political Science. 3 hrs.
A survey of recent developments in the practice and theory of politics, with an emphasis on independent study. PR: instructor's consent.

PSYCHOLOGY

PSYC 1101. S-FSU Introduction to Psychology 3 hrs.
A general overview of the science of psychology. Topics include science methodology, life-span psychology, personality theory, consciousness, stress, health and coping, learning theory, psychological disorders, biopsychology, sensation, cognition and memory and social psychology.

PSYC 2220. History and Systems of Psychology. 3 hrs.
Traces the development of the science of psychology from its origins in philosophy, physiology and medicine to the modern era. PR: PSYC 1101.

PSYC 2230. Social Psychology (Same as SOCY 2230). 3 hrs.
A study of how man affects and is affected by others. Topics include the socio-psychological foundations of perception, affiliation, influence, group structure and dynamics, attitude formation and change. PR: PSYC 1101.

PSYC 2240. Statistics. 4 hrs.
This course covers elementary statistical description and analysis, as employed particularly in the behavioral sciences. Three hours of lecture, one hour of laboratory per week. PR: PSYC 1101.

PSYC 2250. S-FSU Community Psychology. 3 hrs.
This course consists of lectures, discussion, readings and field observation designed to acquaint the student with the philosophy, technique and theory of community mental health. PR: PSYC 1101.

PSYC 2260. Industrial and Personnel Psychology. 3 hrs.
A study of psychological concepts and methods as applied to personnel management, human-factors engineering, employee selection, motivation, training, productivity, consumer psychology and human relations. PR: PSYC 1101.

PSYC 3300. Abnormal Psychology. 3 hrs.
A survey of the antecedents, diagnosis, treatment and prevention of various maladjustments and personality disturbances. PR: PSYC 1101.

PSYC 3310. Experimental Psychology. 3 hrs.
An introduction to the procedures of experimental research, design and evaluation, using laboratory techniques. Two hours of lecture and two hours of laboratory weekly. PR: PSYC 2240.

PSYC 3320. Sensation and Perception. 3 hrs.
An examination of the classical concepts in sensation and perception and of the resulting psycho-physical data for each of the major senses, with an emphasis on vision and audition. Psychology and modern perceptual formulations are viewed through the lens of empirical data. PR: PSYC 1101.

PSYC 3330. Developmental Psychology. 3 hrs.
A longitudinal study of behavior change and development through the life span of the individual, from conception through the end of life. PR: PSYC 1101.

PSYC 3340. Operant Techniques and Applications. 3 hrs.
A detailed study of operant techniques and methodologies, from the experimental laboratory to the community at large. Emphasis is placed on the development of skills in the observation, manipulation and evaluation of various behavior-control techniques in the light of ethical concerns. PR: PSYC 1101.

PSYC 3350. Biopsychology. 3 hrs.
This course focuses on the basic development, structure and function of the central nervous system, autonomic nervous system and endocrine system. The emphasis is on the relationship between physiological functioning and the behavior of the intact organism. PR: PSYC 1101.

PSYC 3360. Cognitive Psychology. 3 hrs.
The study of thinking, memory, perception, cognition and verbal behavior. PR: PSYC 1101.

PSYC 3370. Theories of Learning. 3 hrs.
A study of the experimental procedures, data and concepts dealing with changes in behavior that are usually defined as learning. The emphasis is on a detailed analysis of various theories of learning and contemporary approaches. PR: PSYC 1101.

PSYC 3390. Foundations of Psychology. 3 hrs.
Writing Intensive
A detailed study of the methodological and philosophical issues involved in the analysis of behavior. The course objectives are to provide insight into the nature of applied scientific research, to foster the ability to construct empirical hypotheses, to develop facility in designing experimental tests of hypotheses, to promote effective reading and evaluation of psychological research and to encourage professional writing and speaking about psychological theory and experimentation. PR: PSYC 3310.

PSYC 3393. Future Global Crises. 3 hrs.
A team-taught, multi-disciplinary study of potential developments in the world. Areas of concentration are tailored to students' interests. (Credit in Political Science or Technology). PR: PSYC 1101

PSYC 3399. Special Topics in Psychology. 1-12 hrs.
Studies in special selected topics, to be determined by the instructor and approved by the School's chairperson. Credits earned will be applicable as free electives in degree and certificate programs. PR: PSYC 1101

PSYC 4400. Psychometrics. 3 hrs.
This course addresses the general theory of measurement as involved in various areas of psychology, such as psychological tests, attitude scales, psychophysics and qualified behavior theory. PR: PSYC 2240.

PSYC 4410. Theories of Personality. 3 hrs.
A critical consideration of the major theories of personality, including Psychodynamic, Cognitive, Cognitive Behavioral, Behavioral, Existential, Trait, Adlerian and Gestalt theory. The basis of personality theoretical development will also be emphasized. PR: PSYC 1101.

PSYC 4420. Comparative-Ethological Psychology. 3 hrs.
A study and comparison of the methods and major theories in ethology and psychology, as related to the behavior of species at different phylogenetic levels. Through lectures, laboratory, and field observations, the course will address topics such as behavior as related to species, speciation and evolution, imprinting, learning, the place of animal experimentation in psychology and aspects related to population and ecology. PR: PSYC 1101 or instructor's consent.

PSYC 4460. Seminar. 3-6 hrs.
The discussion of specific research topics as reported in contemporary psychological literature is emphasized in this particular course. It is designed specifically to promote students' analytical thinking and presentation, as it pertains to current research investigation. PR: PSYC 1101. May be repeated once.

PSYC 4480. Directed Studies. 1-6 hrs.
Intensive study and reading on a topic selected by the student and instructor. Requirements and credit must be decided before registration through instructor-student consultation. PR: Instructor's consent. (Six-hour limit.) PSYC 1101

PSYC 4481. Industrial Psychology, Methods I. 3 hrs.
Students in this course will develop skills and understanding in the areas of job analysis, performance appraisal, training, motivation, attitudes, job satisfaction, productivity and consumer psychology. Some field work is required. PR: 2240, 2260.

PSYC 4483. Industrial Psychology Methods II. 3 hrs.
Skills and understanding are developed in the areas of leadership, supervision, communication, organizational behavior, accidents and safety, fatigue, monotony, working conditions and engineering psychology. Some field work required. PR: PSYC 4481.

PSYC 4485. Advanced Psychometrics. 3 hrs.
This course covers personnel selection and placement, as well as a more advanced treatment of reliability and validity. Skills in these areas are developed. PR: 4400 and instructor's consent.

PSYC 4487. Practicum I. 3 hrs.

PSYC 4489. Practicum II. 3 hrs.
These Practica afford an application of knowledge and techniques developed within the Industrial-Personnel Program. Students work under supervision in participating businesses, industries and institutions. The remaining time is spent in lectures, discussion and reading to enhance the student's training. PR: instructor's consent.

PSYC 4490. Directed Research. 1-3 hrs.
This course provides an opportunity for work on individual library or experimental projects. Requirements, including a thesis, and credit must be decided before registration through instructor-student consultation. PR: Instructor's consent. (Six-hour limit.) For additional information on the availability of Technical Studies Degrees and specific requirements, contact the Community and Technical College Office.

PSYC 4491. Psychopathology of Childhood and Adolescence. 3 hrs.
Problems of etiology, diagnosis and treatment of maladjustment in childhood and adolescence. Students will analyze and discuss problems like drug addiction and juvenile delinquency. PR: PSYC 3300, 3330, or instructor's consent.

PSYC 4493. The Psychology of Aging. 3 hrs.
A study of problems facing the aging. The psychological, social and physiological aspects of aging and methods of treatment are analyzed and discussed. PR: PSYC 3330, or instructor's consent.

PSYC 4494. Interpersonal Dynamics. 3 hrs.
The main objective of this course is to develop techniques and basic skills required for effective operation in psychological settings such as interviews, role-playing, and facilitation of dyadic and small "dynamics-centered" group interaction. These diagnostic and therapeutic methods are experienced and discussed in terms of various psychological theories of communication. PR: PSYC 1101 and instructor's consent.

PSYC 4495. The Psychology of Delinquency. 3 hrs.
This course investigates factors in the etiology of the delinquent in modern society, with special emphasis on the urban scene. Topics include personality and emotional problems associated with delinquency, and problems of treatment. Students visit persons and institutions serving juvenile delinquents. PR: 3300, 3330, or instructor's consent.

PSYC 4497. Clinical Practicum I. 3 hrs.
PR: PSYC 3300.

PSYC 4498. Clinical Practicum II. 3 hrs.
An application of knowledge and techniques developed within the psychology program. Students work under supervision in assigned agencies or institutions. Other practicum assignments are made as available. The remainder of time is spent in lectures, discussion and reading to enhance the student's training. PR: PSYC 3300 and instructor's consent.

RECREATION

RECR 1141. Introduction to Recreation. 3 hrs.
The historical and philosophical foundations of leisure and recreation are introduced. Students will cultivate the knowledge needed to develop concepts concerning recreation, the socio-economic movement affecting the growth and development of recreation, the economic services and the various areas of facilities used in recreation.

RECR 1142. Social Recreation. 3 hrs.
This course is designed to present material and information necessary to adequately conduct social recreation in clubs, churches, campus, playgrounds and recreation centers. Students will be involved with planning, programming, and conducting social recreational activities.

RECR 1143. Outdoor Recreation. 3 hrs.
An examination of the history and development of outdoor recreation, conservation and organized camping. Opportunities are provided to learn camp craft and leadership skills and techniques through field trips and outings.

RECR 1144. Group Leadership. 3 hrs.
This course presents information concerning human dynamics, leadership abilities, and the identification of group types. Students will obtain practical knowledge of group situations and the principles necessary for effective leadership. Opportunities for observation of recreation leaders will be provided. PR: RECR 1141.

RECR 1145. Program Planning and Organization. 3 hrs.
A presentation of the underlying principles for effective recreation planning. Attention is given to the variety of programs associated with recreation and the interests of the participants. Students will also examine methods of planning, organization, leadership, facilities and equipment. PR: RECR 1141.

RECR 1146. S-FSU Folk and Square Dance. 2 hrs.
This is a survey course of the history and development of folk and square dancing. The student will learn the necessary skills for participation and teaching a wide variety of dances. Appropriate dance activities within various recreational settings will be investigated.

RECR 1153. Seminar in Outdoor Recreation. 2 hrs.
This course provides an advanced experience in the organization and presentation of various outdoor programs. Participation includes a number of weekend and extended outdoor experiences, plus field studies in area outdoor facilities. PR: RECR 1143.

RECR 1154. Recreation Field Work I. 2 hrs.
The student will become acquainted with the nature and diversity of available recreation programs and services. The student will be assigned to recreational settings distinctly different in philosophy, organizational structure and clientele served.

RECR 1155. Recreation Field Work II. 2 hrs.
A continuation of RECR 1154, this sequence of field work courses is developmental. Progress develops from a dependent position to an interdependent position.

RECR 1199. Special Topics in Recreation. 1-12 hrs.
Special selected topics will be studied, to be determined by the instructor and approved by the School's chairman. Credits earned will be applicable as free electives in degree and certificate programs.

RECR 3300. Intramural Administration. 3 hrs.
This course provides administrative experience in directing and supervising institutional physical recreational programs. The course will be offered both semesters on an arranged basis. PR: Junior standing. (The course cannot replace or be used in the fulfillment of other program requirements.)

RECR 3301. Day Camp Administration. 3 hrs.
In this course, students will gain administrative experiences in directing and supervising summer day camp programs (Falcon Camp). This course will be offered on an arranged basis during the first and second summer sessions only. PR: Junior standing.

RESPIRATORY CARE

RESP 1101 Introduction to Respiratory Care 3 hrs.
This course introduces the respiratory care student to the basic principles and skills required to care for the cardiopulmonary patient with a significant emphasis on respiratory anatomy and physiology, including patient assessment, principles of oxygen administration and basic pulmonary diagnostic procedures. The learner will obtain CPR certification during this course.

RESP 1103 Respiratory Care Pharmacology 3 hrs.
This course is an in-depth study of the drugs encountered during the clinical practice of respiratory care. The indications, dosages, actions, side effects, and other aspects of medication and medication delivery will be studied. Emphasis will include general chemistry principles.

RESP 1105 Clinical Practice I 4 hrs.
This course couples laboratory practice with clinical application of basic technical skills used in the delivery of care to the cardiopulmonary patients. The practice of clinical skills acquired during laboratory practice will be applied in a full service respiratory care department under the guidance of a clinical instructor. Emphasis on clinical application of principles and theories taught in RESP 1101. PR: RESP 1101, 1103

RESP 1107 Mechanical Ventilation I 3 hrs.
An examination of the theory and application of principles of mechanical ventilation. Emphasis will be place on the effects of positive pressure ventilation, operating modes, airway management, and initiation of mechanical ventilation.

RESP 1109 Respiratory Pathophysiology 3 hrs.
An in-depth study of cardio-pulmonary pathology, injuries, surgery, and associated medical findings. Clinical treatment is integrated into the discussion of each pathology. PR: BIOL 1170

RESP 1110 Clinical Practice II 4 hrs.
This course is a continuation of Clinical Practice I. The respiratory care student will begin to apply and refine pulmonary assessment and diagnostic skills. Structured clinical experiences in a variety of health care settings allow the learner to apply state-of-the-are therapeutic modalities used in the treatment and management of the respiratory care patient.

RESP 1112 Neonatal/Pediatric Respiratory Care 3 hrs.
General Survey of respiratory physiology, diseases, and treatment of the neonatal and pediatric population. Included is a study of the respiratory management of the high risk infant.

RESP 1114 Mechanical Ventilations II 3 hrs.
The course is a continuation of Mechanical Ventilation I. Emphasis will be placed on invasive and non-invasive assessment and monitoring of the mechanically ventilated patient. The learner will begin the practice of advanced therapeutic procedures for complex medical conditions and demonstrate setup and operation of representative mechanical ventilators.

RESP 1115 Clinical Practice III 4 hrs.
This course is a continuation of Clinical practice II. It provides laboratory practice and clinical application of technical and professional skills utilized in general floor care as well as some critical care procedures.

RESP 1200 Respiratory Care Capstone (on-line) 3 hrs.
This course is designed to be accomplished without regular classroom meetings. The course incorporates discussion of critical questions and contemporary issues in the current health care environment. The goal is to facilitate successful transition from student to graduate respiratory care professional. The student will demonstrate the value of life long learning and provide evidence of adequate preparation for assuming the role of respiratory care professional.

RESP 1202 Respiratory Care Exam Preparation 2 hrs.
This course provides practice examinations and review to prepare the student to obtain the CRT and RRT credential. This course will be primarily taught online.

RESP 1204 Respiratory Care Internship 2 hrs.
This clinical experience will be the choice of the student. Choices include management, neonatal and pediatrics, adult critical care, diagnostic and monitoring , pulmonary rehabilitation, home and skilled nursing care for the pulmonary patient, and other experiences.

RESP 1205 Neonatal/Pediatric Clinical Practice 4 hrs.
This course is the clinical practice component of RESP 1112, Neonatal/Pediatric Respiratory Care. This course focuses on the application of respiratory care procedures in the neonatal and pediatric care units, including neonatal and pediatric intensive care units. PR: RESP 1112

RESP 1210 Intensive Respiratory Care 4 hrs.
This course will focus on assessment and monitoring techniques used in critical care medicine. The learner will explore advanced cardio-pulmonary monitoring, fluid and electrolyte management, nutritional assessment, and patient outcomes.

RESP 1215 Clinical Practice IV 4 hrs.
This course is a continuation of Clinical Practice III. It provides laboratory practice and clinical application of technical and professional skills utilized in the intensive care unit, with emphasis on the mechanically ventilated patient.

SAFETY EDUCATION

SAFE 1199. Special Topics in Safety. 1-12 hrs.
Special topics will be selected, to be determined by the instructor and approved by the School's chairman. Credits earned will be applicable as free elective credits in degree and certificate programs.

SAFE 2200. S-FSU Accident Analysis and Emergency Care. 2 hrs.
An analysis of problematic areas of accident causation, prevention, emergency treatment and control pertinent to the elementary school environment and teacher responsibilities. Elementary Education majors only.

SAFETY/ENVIRONMENTAL ENGINEERING TECHNOLOGY

SFTY 1100. Safety and Environmental Components of Industry. 3 hrs.

This course provides an introduction to OSHA and EPA regulations pertaining to general and construction industry record keeping, OSHA/EPA inspection, fire, chemical exposure, most frequent violations and other topics.

SFTY 1150. Safety Management and Concepts in Accident Prevention. 3 hrs.

An introductory examination of safety management principles, with an emphasis on recordkeeping, hazard identification, product safety and behavioral-based safety, as related to accident prevention. PR: SFTY 1100, MATH 1101.

SFTY 2210. S-FSU Disaster Preparedness and Emergency Systems. 3 hrs.

A study of the major elements of disasters and emergencies, including systematic and organized methods of preparedness planning for these events.

SFTY 2250. Safety Law and Compliance. 3 hrs.

This course is a study of federal and state regulations governing general industry and product safety, with an emphasis on various legal problems related to OSHA and general industry. (OSHA 10-hour card is attainable upon completion of this class.) PR: SFTY 1100.

SFTY 2260. S-FSU Fire Prevention. 3 hrs.

An examination of fire prevention, detection and suppression. The NFPA Lifesafety Code will be addressed, as well as basic water supply and hydraulics, including distribution systems. PR: SFTY 1100, CHEM 1102.

SFTY 2280. Construction Safety & Law. 3 hrs.

This course covers federal construction regulations and the case law surrounding the construction industry. (OSHA 10-hour card is attainable upon completion.) PR: SFTY 2250, MATH 1102.

SFTY 2290 S-FSU Industrial Hygiene and Toxicology. 3 hrs.

This course covers the methods for anticipating, recognizing, evaluating and controlling exposures in the workplace while exploring the toxicological effects of contaminants on workforces. PR: SFTY 1150, CHEM 1102, CR: SFTY 2250.

SFTY 2291. Environmental Engineering Technology: Hazardous Waste. 4 hrs.

This class provides a comprehensive study of federal/state regulations and legislation pertaining to the Environmental Protection Agency. Coverage shall include EPCRA, TSCA, RCRA, CWA and CAA as related to generation, storage and disposal of chemicals and waste in industry. PR: CHEM 1102, SFTY 2250.

SFTY 2295. HazWOPER. 3 hrs.

A study of emergency responses related to hazardous chemical/waste spills. This course will be taught in accordance with OSHA's 29 CFR 1910.120. Completion of the course can result in HazWoper Certification.

SFTY 3300. Industrial Hygiene Applications and Practices. 4 hrs. Writing Intensive

A continuation of SFTY 2290, this course allows students to explore and apply the industrial hygiene sampling methodologies applicable to different chemical, biological and thermal exposures in the workplace. This is a hands-on class, focusing on the utilization of sampling equipment. It satisfies the Writing Intensive Course requirement for Liberal Studies. PR: SFTY 2290.

SFTY 3310. Ergonomics & Human Factors. 3 hrs.

This class will explore the interaction between the design of the workplace and the worker, with an emphasis on anatomical/physiological stressors and common work-related musculoskeletal disorders. It will also focus on redesign and elimination of said stressors and cognitive factors related to the work environment. PR: SFTY 1100, CHEM 1102, MATH 1102, BIOL 1170. Spring Semester Only

SFTY 3335. Air Pollution. 3 hrs.

This course focuses on the state and federal requirements for air emissions, with an emphasis on reporting and sampling methodologies. Studies include criteria pollutants, hazardous air pollutants and ozone-depleting chemicals, as well as modeling and emission control/reduction. PR: SFTY 2291.

SFTY 3345. Water Pollution. 3 hrs.

A study of state and federal regulations governing industrial water pollution, including permitting, monitoring and remediation. The regulatory approach shall include the history of water pollution in this country and the technology and work practices available today to limit emissions. PR: SFTY 2291.

SFTY 4400. Safety Engineering Design. 3 hrs.

This course covers design engineering and engineering countermeasures needed to minimize losses incurred by man and the environment. PR: SFTY 2250, PHYS 1102.

SFTY 4415. Safety Internship. 3 hrs.

Students shall complete an advisor-approved safety internship. Responsibilities must be in the field of employee safety and/or health. PR: instructor's consent.

SFTY 4420. System Safety and Management. 4 hrs.

A study of System Safety methodologies and Process Safety management, with an emphasis on safety audits, safety management, risk assessment, loss control and statistical applications. PR: SFTY 4400, MATH 1113, INFO 1100.

SCIENCE

SCIE 1000. Human Biology. 4 hours

Human Biology is an introductory course intended for non-science majors and is specifically designed to enable students to relate human structure and function to everyday life. Topics include basic human genetics, structure and function of the human body, relationship of humans to their environment, and public health. Current topics related to human biology are discussed throughout the semester. This course includes 3 hours of lecture and 2 hours of lab per week.

SCIE 1010. Earth and Sky. 4 hours

For non-science majors, this course is designed to give students a greater appreciation of the world around them. The course focuses on observable, useful science by an integrated approach of meteorology and astronomy from the perspective of Earth. Topics cover the Earth's formation, its weather, and its place in the Universe. Students investigate both the process and content of science through activities, collaborative learning, guest speakers, and local field trips. Concepts are applied to weather and astronomy observations as well as critical environmental issues. The course uses a printed text and meets for two-hour class periods twice a week.

SCIE 1103. Science That Matters I. 4 hrs.

Socially-relevant science topics are investigated in an interdisciplinary (biology, chemistry, earth and space science, and physics), activities-based, modular format. Two-to three-week modules present both the process and content of science as a vital part of major contemporary issues. In each module, students explore the underlying science and employ collaborative learning and evidence-based analysis to understand the topic and formulate personal judgments about the issue. The course is heavily web-based, with no printed text, and meets for two-hour class periods twice a week.

SCIE 1110. S-FSU Chemistry of Life. 4 hrs.
An introduction to scientific principles, designed to provide an understanding of the chemistry of biological systems. The intent of this course is to foster an appreciation for the chemical nature of life as it relates to health, diagnostics and the treatment of human diseases. It will consist of one two-hour class period and one two-hour activity period per week. PR: Math ACT score of 19 or higher, SAT 460, COMPASS 36, or MATH 0095.

SCIE 1210. Science in the Heart of Appalachia. 4 hrs.
During this course you will explore the science underlying the formation, extraction and utilization of coal within the context of coal-based societal issues. The course will emphasize active, student-centered learning. Topics include the formation of different coal types, why coal is such an excellent source of energy, acid mine drainage, environmental pollution, human health issues, and the future of new coal technologies. You will investigate the important, intractable social problems of non-renewable resource depletion, mountaintop removal-valley fills and public health. You will be challenged to examine your role as a citizen and energy consumer in finding equitable solutions to these and other issues.

SCIE 1220. Geologic Heritage in the Field. 4 hours
Designed for non-science majors and no prerequisites, this course explores introductory geology concepts in the classroom and through field trips. Topics include the Earth's formation, plate tectonics, geologic time, mineral and rock identification, landform interpretation, and their relationship to cultural history. Students investigate both the process and content of geology through activities, collaborative learning, and local field trips. Concepts are applied to deciphering the state's ancient geology, geography, and critical environmental issues. The course primarily uses handouts with a suggested textbook. The class meets for two-hour class periods twice a week that include local field trips during class time plus 3 or 4 daylong field trips on the weekends to areas of interest.

SOCIAL SCIENCE

SSCI 1199. Special Topics in Social Science. 1-12 hrs.
Studies in special selected topics, to be determined by the instructor and approved by the School's chairperson. Credits earned will be applicable as free electives in degree and certificate programs.

SSCI 1101. Introduction to Intelligence Research. 3 hrs.
This course will integrate lecture and applications designed to develop basic skills in writing, research, analytical and presentation skills. The course will include lectures, discussions and computer and research design projects.

SSCI 2200. Field Experience in IRA. 3 hrs.
A supervised professional study conducted in the Intelligence Research and Analysis field setting. PR: instructor's consent.

SSCI 4431. Methods and Materials of Teaching Social Studies. 3 hrs.
A survey of theory and practice in secondary school social studies. Students participate in laboratory exercises using various techniques of social studies teaching. Each student is also required to plan and teach at least one micro-unit. Fall semester only. PR: Successful completion of PPST PRAXIS Test.

SSCI 4450. Intelligence Research and Analysis Senior Seminar / Project. 3 hrs.
A capstone course which requires students to explore in-depth case studies related to intelligence research and analysis in the areas of national security, law enforcement, industrial security, and cyber-security. Students will be required to collect information, assess vulnerabilities, develop sources, analyze data, write reports, maintain case files, prepare and give oral briefings and defend recommended courses of action. Students will be supervised in the performance of a directed research project in conjunction with field work at a sponsoring agency. The objective will be an individual project which leads to a publishable intelligence product, enhances intelligence skills or provides a unique service to a project mentor or organization. Student performance will be evaluated by a committee of faculty members. Input regarding the student's performance will be invited and encouraged from the sponsoring agency. PR: senior standing or instructor's consent.

SSCI 4498. Interdisciplinary Seminar. 3 hrs.
Identification and synthesis of major concepts in the fields of geography, history, political science, psychology, sociology and economics. No prerequisites for History Majors. PR: instructor's consent. Fall semester only.

SOCIOLOGY

SOCY 1110. S-FSU Introductory Sociology. 3 hrs.
This course is built around selected sociological concepts and is designed to provide a general understanding of our modern society.

SOCY 1111. S-FSU Introduction to Anthropology. 3 hrs.
This course is a survey of anthropology, covering both pre-historic and traditional peoples and cultures.

SOCY 1151 Introduction to Social Work 3 hrs.
This course provides a comprehensive overview of the ways social workers respond to a wide range of societal problems, as well as, an overview of the agencies that administer the services to those in need. This course emphasizes students' interests and abilities in relation to social work values, their capacity to interact in a caring, non-judgmental manner with others who have diverse lifestyles and different socio-economic backgrounds.

SOCY 1199. Special Topics in Sociology. 1-12 hrs.
Studies in special selected topics, to be determined by the instructor and approved by the School's chairperson. Credits will be applicable as free electives in degree and certificate programs.

SOCY 2200. S-FSU Social Problems. 3 hrs.
A study of social stresses and strains in important areas of human relationships. PR: SOCY 1110.

SOCY 2230. Social Psychology. 3 hrs.
A study of social structure and interaction. Students will focus on techniques of leadership and control. PR: SOCY 1110. Recommended: PSYC 101 or EDUC 1302 and 1303. Same course as PSYC 2230.

SOCY 2240. Nonparametric Statistics. 3 hrs.
Introduces the student to the fundamental principles of descriptive and inferential statistics, with an emphasis on the analysis of nominal and ordinal data. These areas include non-parametric tests of significance, scaling, coding, and a discussion of hypothesis construction. This course should be taken during the sophomore year. (Credit in either Political Science or Sociology.) PR is a grade of C or better in MATH 1100 or higher.

SOCY 3301. Ethnology. 3 hrs.
A study of human biological and social origins, including human prehistory, race, the origin and nature of culture, social organizations among preliterate peoples, cultural diffusion and culture change. PR: SOCY 1110 or 1111.

SOCY 3310. Sociology of the Family. 3 hrs.
A study of the background, structure and function of the American family, with emphasis placed on the effect of social change upon the family. The meaning of the paired relationship is examined, along with alternatives to marriage and the family. PR: SOCY 1110.

SOCY 3325. Social Stratification. 3 hrs.
The course includes an analysis of social structure and stratification in terms of class, status and power relations in society; students will examine various theories and research findings. PR: SOCY 1110.

SOCY 3340. Juvenile Delinquency. 3 hrs.
A study of what society defines as delinquent behavior and of the young people designated as delinquents. Emphasis will be placed on the causes of delinquency and on the various techniques and methods of prevention, treatment and rehabilitation. PR: SOCY 2200.

SOCY 3360. Methods of Social Research. 3 hrs.
This course is an introduction to the planning and implementation of social research projects. Students will consider the topics of variables and hypotheses, flowcharts, tables, questionnaires, coding instructions and data sheets, machine processing and survey analysis of the data. PR: SOCY 2240.

SOCY 3380. Afro-American History and Culture. 3 hrs.
A multi-disciplinary approach to black culture in American life, from African civilization to the American Civil War. (Credit in History or Sociology.) PR: SOCY 1110

SOCY 3381. Blacks in America: 1865 to the Present. 3 hrs.
An in-depth study of the history and culture of African-Americans in the United States, from 1865 to the present. (Credit in History or Sociology.)

SOCY 4410. Industrial Sociology. 3 hrs.
A study of the organization, structure, function and social relationships found in the various areas of industrial activity in American society. The area of industrial relations will receive special emphasis. PR: SOCY 1110.

SOCY 4430. Community Organization. 3 hrs.
A study of the structure and function of various social groupings found in the community. The course is oriented toward the development of community leadership talent. PR: SOCY 2200.

SOCY 4450. Minority Groups. 3 hrs.
A study of racial and cultural minority groups in the United States, with special emphasis upon understanding the causes of their perseverance and the reason for majority-minority antagonisms. Students will also examine the techniques whereby prejudices are developed and ameliorated. PR: SOCY 2200.

SOCY 4461. Advanced Methodology. 3 hrs.
This course will critically compare the various stages of social research, such as conceptualization of hypothesis, measurement, experimental design, sampling, data collection, data analysis and data interpretation. Within this format, various special topics will be developed, depending upon the available resources. PR: SOCY 3360 or instructor's consent.

SOCY 4470. Sociological Theory. 3 hrs.
Writing Intensive
A study of the historical development of modern sociological thought. PR: SOCY 3360.

SOCY 4471. Advanced Sociological Theory: A Critical Review. 3 hrs.
A comparison, contrast and critical examination of certain selected sociological theorists. PR: SOCY 4470 or instructor's consent.

SOCY 4490. Seminar: Sociological Literature. 3 hrs.
A course focusing on original sources and publications not primarily used as texts. PR: SOCY 4470 or instructor's consent.

SOCY 4491. Seminar: Sociological Literature. 1-3 hrs.
A course focusing on original sources and publications not primarily used as texts. PR: SOCY 4470 or instructor's consent.

SOCY 4492. Seminar: Sociological Literature. 1-3 hrs.
A course focusing on original sources and publications not primarily used as texts. PR: SOCY 4470 or instructor's consent.

SOCY 4497. Seminar: Special Problems in Sociology. 3 hrs.
Open only to juniors and seniors majoring in Sociology. Reading and research on subjects suited to the student's needs. PR: SOCY 4470 or instructor's consent.

SOCY 4498. Seminar: Special Problems in Sociology. 1-3 hrs.
Open only to juniors and seniors majoring in Sociology. Reading and research on subjects suited to the student's needs. PR: SOCY 4470 or instructor's consent.

SOCY 4499. Seminar: Special Problems in Sociology. 3 hrs.
Open only to juniors and seniors majoring in Sociology. Reading and research on subjects suited to the student's needs. PR: SOCY 4470 or instructor's consent.

SPANISH

SPAN 1101. S-FSU Elementary Spanish I. 3 hrs.
Designed for the student with little or no prior experience with Spanish. Students will practice Spanish pronunciation and will learn basic grammar as they develop skills in reading, writing, speaking and comprehension. Students will develop communication skills in situations related to everyday living, both at home and in the workplace. Students with two years or more of high school Spanish should register for SPAN 1102.

SPAN 1102. S-FSU Elementary Spanish II. 3 hrs.
A continuation of Spanish 1101. Students expand their skills and knowledge of grammar while reading, writing, speaking and building a broad vocabulary base. Students will develop communication skills in situations related to everyday living, both at home and in the workplace. PR: SPAN 1101 or equivalent.

SPAN 1199. Special Topics. 3 hrs.
Studies in selected topics, to be determined by the instructor and approved by the chairperson. Credits earned will be applicable as free electives in degree and certificate programs.

SPAN 2200. Language Through Video. 3 hrs.
A video-based course designed to maximize the student's exposure to the target language. Students independently watch Destinos and are tested on their comprehension of the material. PR: SPAN 1102.

SPAN 2201. S-FSU Intermediate Spanish I. 3 hrs.
Students integrate the grammar studied with the skills acquired in Spanish 1101 and 1102, and become familiar with more sophisticated grammatical structures. The course will focus on reading, writing, and communication skills in situations related to everyday living, both at home and in the workplace. PR: SPAN 1102. Offered every other semester.

SPAN 2202. S-FSU Intermediate Spanish II. 3 hrs.
Students will review Spanish grammar and augment their vocabularies by the study and discussion of written works (short stories, poems, news articles, and essays). Emphasis is placed on developing the student's conversational skills through class discussion and debate. PR: SPAN 2201.

SPAN 2250. Spanish For the Medical Professions. 3 hrs.
This course is designed to enable the student to effectively manage the fundamentals of medical terminology in Spanish. PR: SPAN 1102. Offered on demand.

SPAN 2251. Spanish For Criminal Justice. 3 hrs.
This course enables the student to effectively manage the fundamentals of law enforcement terminology in Spanish. PR: SPAN 1102. Offered on demand.

SPAN 2252. Spanish For a World Economy. 3 hrs.
This course is designed to enable the student to effectively manage the fundamentals of business terminology in Spanish. PR: SPAN 1102. Offered on demand.

SPAN 3300. Undergraduate Student Exchange. 3-6 hrs.
Any student who participates in an exchange program which is approved by his/her advisor may receive three to six credit hours, depending upon the type of program and its duration. PR: SPAN 1102.

SPAN 3301. Spanish Composition and Conversation I. 3 hrs.
Writing Intensive
Designed to improve skills in oral and written expression. PR: SPAN 2202.

SPAN 3302. Spanish Composition and Conversation II. 3 hrs.
This course is a continuation of SPAN 3301, with an increasing emphasis on communicative skills relevant to a wide variety of cultural contexts. PR: SPAN 2202.

SPAN 3310. Spanish Civilization and Culture. 3 hrs.
The students will study the history, civilization, and culture of Spain through extensive reading, videos, writing and class discussion. PR: SPAN 3301 or 3302.

SPAN 3320. Latin American Civilization and Culture. 3 hrs.
The students will study the history, civilization, and culture of Latin America through extensive reading, videos, writing and class discussion. PR: SPAN 3301 or 3302. Offered every other semester.

SPAN 3350. History of the Spanish Language. 3 hrs.
This class is an introduction to the historical development of the Spanish lexicon, morphology, and phonology. It is designed for the student with little or no previous background in linguistics. PR: SPAN 3301 or 3302. Offered on demand.

SPAN 4400. Survey of Latin American Literature. 3 hrs.
This class covers the major movements in Latin American literature, from Pre-Colombian times through the present. Students will be exposed to the major genres (poetry, narrative, essay and theater) through extensive reading and will become familiar with the greatest writers of Hispanic literature. PR: SPAN 3301 or 3302. Offered every other year.

SPAN 4401. Survey of Peninsular Literature. 3 hrs.
This class focuses on the major movements in Peninsular literature, from the Spanish Middle Ages through the present. Students will be exposed to the major genres (poetry, narrative, essay and theater) through extensive reading and will become familiar with the greatest writers of Spanish literature. PR: SPAN 3301 or 3302. Offered every other year.

SPAN 4402. Independent Study. 3-6 hrs.
Students may participate in a variety of programs designed to help them attain a higher level of fluency and a greater understanding of Hispanic culture. PR: SPAN 4400 or 4401, and instructor's consent.

SPAN 4418. US Hispanic Cultures & Literature. 3 hrs.
This course studies the history of the Hispanic presence in the US, its influence upon contemporary US culture, society, and economy and the politics of language. Materials studied include newspaper articles, essays, films and plays. PR: SPAN 3310 or 3320. Offered on demand.

SPAN 4431. Methods: Second Language Acquisition in the Classroom. 3 hrs.
Taught in English. In this class, foreign language teaching majors will study the methodology of second language acquisition and its application in the classroom, familiarize themselves with national foreign language instruction standards, design lesson plans, teach mini-lessons, participate in peer evaluation and become familiar with the latest pedagogical technologies available. PR: SPAN 4400 or 4401, and instructor's consent. Offered on demand.

SPEECH COMMUNICATION

SPCH 1100. S-FSU Introduction to Speech Communication. 3 hrs.
Examines the theoretical foundations of speech communication through definitional analysis and examination of communication models, code elements and ethical considerations pertinent to communication in our society. This course provides the opportunity for each student to participate in interpersonal and public speaking presentations to develop his/her skills in interacting with others in both the personal and professional arenas. This course is required of all B.A. and B.S. degree candidates.

SPCH 1103. Listening Skills. 1 hr.
This course focuses on the foundation techniques – behavioral, attitudinal and cognitive – which are used in effective listening. The course will also examine what is known about listening. Exercises designed to improve listening techniques and skill are included.

SPCH 1105. Voice & Diction. 3 hrs.
This course covers the theory and practice of speech science, provides the basic information necessary for further speech and drama study and helps students improve their speaking skills. Open to speech communication and theatre students and music students only. Fall semester only.

SPCH 1171. Mass Communication. 3 hrs.
This course is a survey of the mass communication industry and its role in today's society. Students will discuss historical developments and current responsibilities of those working in the various areas of mass communication. Special emphasis will be given to the ever-changing nature of mass communication, including the computer and Internet as new tools. Fall semester only.

SPCH 1199. Special Topics in Speech Communication. 1-12 hrs.
Studies in special selected topics, to be determined by the instructor and approved by the School's Dean. Credits earned will be applicable as free electives in degree and certificate programs. Maximum credit allowed is 3 hours per semester, up to 12 hours total.

SPCH 2215. Nonverbal Communication. 3 hrs.
This course examines the nonverbal components of speech communication. Concepts of the human body as a message carrier and the message characteristics of space, time, artifacts and voice will be discussed. In addition, students will research the functions of nonverbal communication as it affects relational interaction. Spring semester only. PR: SPCH 1100.

SPCH 2219. Language in Communication. 3 hrs.
A study of verbal coding for communication, this course focuses on the function of language in oral communication, theories of oral language acquisition and behavior and the special problems involved in oral language coding for audiences. Spring semester only. PR: SPCH 1100.

SPCH 2231. Small Group Communication. 3 hrs.
A study of communication in a small-group context, with emphasis on the processes of role emergence and decision-making in a task-oriented group. Group cohesiveness, roles, group acculturation, leadership emergence and the small group in organizations are among the topics studied. Spring semester only. PR: SPCH 1100.

SPCH 2235. Interpersonal Communication. 3 hrs.
A study of communication in dyadic settings, with an emphasis on increasing understanding of the theories, concepts and principles related to human interaction. Focus is on improving skills in interpersonal communication. Fall semester only. PR: SPCH 1100.

SPCH 2241. Argumentation & Debate. 3 hrs.
A study of the principles of argumentation, logic and reasoning, evidence and decision-making. A practical application of these principles is emphasized through the study of current controversies and oral class debates. Fall semester only. PR: SPCH 1100.

SPCH 2249. Intercollegiate Debate I-IV. 1-4 hrs.
This course provides training for and participation in intercollegiate debate tournaments at colleges and universities throughout the eastern United States. Credit is also given for researching the intercollegiate debate proposition for the current academic year. Maximum credit in any one semester is one hour. Open to freshmen and sophomores. Juniors and seniors, see SPCH 4449. PR: SPCH 2241.

SPCH 3337. Persuasive Communication. 3 hrs.
This course is an in-depth study of the speaker, audience and environmental factors influencing the persuasive process. It is designed to give advanced speech communication students training in the preparation, presentation and critical analysis of persuasive speeches. Various delivery styles, including impromptu and extemporaneous, will be used. Fall semester only. PR: SPCH 2241.

SPCH 3345. Oratory. 3 hrs.
This course is the capstone experience for all speech communication majors and minors. Students will study the role of rhetoric/public discourse as an agent of change in a free society, and prepare a persuasive manuscript to be delivered to a public audience. This class prepares students for participation in the M. M. Neely Persuasive Speaking Contest. Spring Semester only. PR: SPCH 3337.

SPCH 3369. Communication in Organizations. 3 hrs.
This course will study the nature of communication in organizations and the skills necessary to communicate effectively in the organizational setting. Students will investigate the organization as a communication system, formal and informal systems, serial communication, networks, alternative communication systems, interpersonal and organizational communication skills and communication problems and strategies in organizations. Spring semester only, in even years. PR: SPCH 1100.

SPCH 4431. Methods and Materials in Teaching Speech Communication and Theatre. 3 hrs.
This course covers the philosophy, methods, and materials of teaching speech communication and theatre, as well as directing the speech communication and theatre co-curricular and extra-curricular activities in the secondary schools. Fulfills Professional Block requirement for those with a single teaching field in oral communication. Fall semester only.

SPCH 4449. Intercollegiate Debate I-IV. 1-4 hrs.
This course provides training for and participation in intercollegiate debate tournaments at colleges and universities throughout the eastern United States. Credit is also given for researching the intercollegiate debate proposition for the current academic year. Maximum credit in any one semester is one hour. Open to juniors and seniors. Freshmen and sophomores see SPCH 2249. PR: SPCH 2241.

SPCH 4491. Directed Study in Speech Communication. 1-4 hrs.
The student may elect directed study in any area of speech communication which is not treated in the speech course offerings. Coursework is designed by the student and selected faculty, with approval of the School's Dean. Maximum credit earned in any one semester is one credit hour. PR: instructor's consent.

SPCH 4499. Seminar in Communication Issues. 3 hrs.
Writing Intensive
This course is designed to provide extensive knowledge and background in a selected communication issue (ethics) or skill (listening). Fall semester (Ethics in odd years, Listening in even years).

TECHNOLOGY

TECH 1100. Technology and Society. 3 hrs.
An analysis of the historical development of man and technology as antecedents of the technological society. Students will interact with the domains of technology through problem-solving applications of engineering problems.
A study of the basic knowledge and understanding of the societal impacts of technology. Students will research basic fields in technology such as medicine, manufacturing, communication, transportation, biotechnology, environmental issues, technology transfer, and appropriate technology, to determine current trends. Students will be required to select one area where technology has affected society in a positive and/or negative way. Each student will be required to research and make an oral presentation on the selected topic.

TECH 1101. S-FSU Introduction to Technology. 3 hrs.
This course is intended as a survey of the discipline of technology. The goal of the course is to foster some measure of technological literacy and an understanding of the uniqueness of technology in human endeavors. Instruction will consist of lectures, media presentations, discussions and class activities.

TECH 1104. Technology Design & Problem Solving. 3 hrs.
This course provides incoming students with the prerequisite knowledge and skills for required technology systems classes that follow. Students will study the philosophy, rationale, and current curriculum trends in Technology Education. The course will also focus on basic design and drafting techniques, laboratory and machine tool safety practices and design and problem-solving processes used in technological career fields. Class methodology will include both lecture and applied experiences with tools, equipment and processes of technology.

TECH 1150. Control Technology. 3 hrs.
This course addresses the mechanical, fluid, electrical, electronic and computer instrumentation used to regulate technical products and systems. Students will develop knowledge and skills of common control-related components/devices and apply them to the solution of practical problems found in typical technology education settings. CR: TECH 1104.

TECH 1199. Special Topics. 1-3 hrs.
A study of special topics of educational, technical, or industrial concern. PR: instructor's consent.

TECH 2202. Transportation I. 4 hrs.
A study of the means by which mass is moved from one point to another. This will be achieved by studying the propulsion, guidance, control, suspension, structure and support elements of a wide variety of transportation subsystems. Students will complete an historic timeline of transportation and will deliver an oral presentation on a specific transportation propulsion system. PR: TECH 1104.

TECH 2203. Manufacturing I. 4 hrs.
This course deals with an introduction to the inputs, processes and outputs of the manufacturing system. The methodology of the course will involve students with selected research, development and production processes of the manufacturing system. More specifically, each student will design and engineer a middle school- or high school-level product. They will then perform selected production planning, plant engineering, and quality control activities to prepare their product for mass-production. The results of these activities will be developed into camera-ready copy production packets. Finally, each student will set up a production line for the class to mass-produce a limited number of their products, using jigs, fixtures, and/or other mass-production related tooling. PR: MANF 1100, TECH 1104.

TECH 2204. Construction I. 4 hrs.
This introductory course in construction is designed to acquaint students with the impacts of construction on society, basic concepts of architectural design, construction accoutrements (materials, tools

and equipment), specifications and contracts, and processes involved in residential construction. Students will complete an historic timeline of construction and will deliver an oral presentation on a specific residential construction topic. Students will perform several traditional construction activities such as materials testing, card structures, and building a residential model. PR: TECH 1104, MANF 1100.

TECH 2250. History of Technology. 3 hrs.
A survey course from prehistorical tool-making to atomic energy and computers in the twentieth century. Credit in History or Technical Education.

TECH 2290. Engineering Analysis I. 4 hrs.
This course covers technical problem solutions, utilizing analytical geometry and calculus. Topics include curvilinear motion, related rates, curve sketching, maximal and minimal problems, areas, volumes, centroids and moments of inertia by integration. PR: Sophomore standing. MATH 1102 with a grade of C or better or MATH ACT 25.

TECH 2299. Special Topics. 1-3 hrs.
A study of special topics of educational, technical, or industrial concern. PR: instructor's consent.

TECH 3300. Engineering Analysis II. 4 hrs.
A continuation of the study of problem-solving procedures, utilizing calculus. Topics include transcendental functions, partial derivative, double integration, methods of curve fitting, series expansion and differential equations. PR: TECH 2290 or MATH 1185, or MATH 1190 with a grade of C or better.

TECH 3301. Communication. 4 hrs.
This is a study of the technical means by which humans communicate. The emphasis will be on electronic and graphic forms of communication. The social/cultural aspects of communication will be studied, as well as the technical components. The course is designed for prospective junior and senior high school technology education teachers, and will be focused on general education. PR: INFO 1100, TECH 1104.

TECH 3302. Manufacturing II. 4 hrs.
This course deals with the analysis of the inputs, processes and outputs of the manufacturing system. The methodology of this class is to simulate the organization and operation of a manufacturing corporation. Students will elect a board of directors and a company president and will organize departments in research and development, industrial relations, finance, production and marketing. The class will design and engineer a college-level product, plan for mass-production, finance the production through common stock sales or other financial means, mass-produce the product, and market it in the school or local community. PR: TECH 2203.

TECH 3303. Transportation II. 4 hrs.
A study of the means by which mass is moved from one point to another. This will be achieved by studying the environments system elements, and social/cultural aspects of the transportation system. The course is designed for prospective junior and senior high school technology education teachers, and will be focused on general education. PR: TECH 2202.

TECH 3304. Construction II. 4 hrs.
This course deals with an analysis of the inputs, processes, and outputs of the construction system. The methodology of this course will involve selected structural design and analysis, and structural production processes which are used by humans to construct building structures, non-building structures (bridges, tunnels, dams, etc.) and transportation structures/surfaces. This course is designed to provide teacher education majors with an overall view of the construction system that can be applied to middle school and high school classroom situations. The primary methodology in this course is structural model building and testing. PR: TECH 2204.

TECH 3310. Man and Technology. 3 hrs.
A historical study of humans and technology as a basis for the development of contemporary philosophical systems. PR: Junior standing.

TECH 3331. Organization and Administration of Technology Education. 4 hrs.
This course is designed to prepare the pre-service technology education teacher to effectively organize and manage a technology education classroom and laboratory. Emphasis is placed on safety system design, discipline planning, laboratory organization and management, requisitioning/supplies/equipment, machine maintenance and facility design. Also included are topics relating to curriculum trends, Technology Student Association (TSA) and public relations. PR: TECH 3301, 3302, 3303 and 3304.

TECH 3393. Future Global Crises. 3 hrs.
A team-taught, multi-disciplinary study of potential developments in the world. Areas of concentration are subject to students' choice. (Credit also available in Political Science or Psychology) PR: Junior standing.

TECH 3399. Special Topics. 1-3 hrs.
A study of special topics of educational, technical or industrial concern. PR: instructor's consent.

TECH 4400. Work Experience Seminar. 4 hrs.
A functional analysis of industrial organization and management, and the implementation of these concepts toward the initiation of a new industry. PR: Sophomore standing as a Technology major or instructor's consent.

TECH 4401. Work Experience Laboratory. 8 hrs.
Professional work experience, including employer evaluation. PR: instructor's consent.

TECH 4431. Methods and Materials for Teaching Technology Education. 3 hrs.
This course is designed to prepare the pre-service technology education teacher to effectively teach the range of students in grades five through twelve in the public schools. Emphasis is placed on designing a unit of instruction in one of the four technology education system areas. The primary assignment is the preparation of a unit of study that will include the following topics: a rationale, course/unit planning, lesson planning, instructional objectives, instructional strategies and student evaluation/grading. PR: TECH 3301, 3302, 3303 and 3304. CR: TECH 3331.

TECH 4499. Special Topics. 1-3 hrs.
A study of special topics of educational, technical, or industrial concern. PR: instructor's consent.

THEATRE

THEA 1105. Voice and Diction. 3 hrs.
This course covers the theory and practice of speech science, provides the basic information necessary for further speech and drama study and helps students improve their speaking skills and voice. Speech Communication and Theatre students and Music students only. Fall semester only.

THEA 1110. Introduction to Theatre. 3 hrs.
This course provides an overview of the purposes and organization of the theatre and allied areas and the functions of all of the jobs related to a theatrical presentation. Students will examine artistic, performer, director, designer, technicians, and "front-of-house" operations and the theatre as a profession, and will learn about professional organizations and securing employment. Fall semester only.

THEA 1114. Body Training and Stage Movement. 3 hrs.
Care, control and use of the body as an instrument basic to performance (acting, singing, dancing). Spring semester only.

THEA 1120. S-FSU Theatre Appreciation. 3 hrs.
A general theatre course that serves as an introduction to traditional and more recent developments in Western and non-Western theatrical

practice. Students are encouraged to develop their own perspectives and critical skills by means of studying selected writings of theatre practitioners and critics, and by seeing and evaluating campus theatre productions.

THEA 1140. Theatrical Production. 2 hrs.
Lecture course introducing the student to the principles and techniques of the organization, planning, and execution of technical theatre production, including scenery, properties, lighting, costuming, sound and stage management.

THEA 1148. S-FSU Theatre Workshop I. 1 hr. Repeatable up to 4 hrs.
Students in this course are assigned to Masquers productions and studio theatre productions. Opportunities are provided for experience in all areas of technical theatre, such as scenic construction, properties, lighting, costume and sound crews, depending upon the proficiency of the student. No more than one hour can be earned during a semester. Open to freshmen and sophomores (juniors and seniors, see Theatre 3348).

THEA 1151. Text Analysis. 3 hrs.
This course provides a basic introduction to the processes, techniques and applications of text analysis as they relate to the activities and responsibilities of theatre artists – acting, directing, designing, etc. Spring semester only.

THEA 1160. Technical Theatre Practicum: Costuming I. 1 hr.
Practical experience in varied aspects of costuming through work on Masquers productions or other staged events. Open to freshmen and sophomores. Offered on demand.

THEA 1162. Technical Theatre Practicum: Lighting I. 1 hr.
Practical experience in varied aspects of lighting through work on Masquers productions or other staged events. Open to freshmen and sophomores. Offered on demand.

THEA 1164. Technical Theatre Practicum: Properties I. 1 hr.
Practical experience in varied aspects of properties through work on Masquers productions or other staged events. Open to freshmen and sophomores. Offered on demand.

THEA 1166. Technical Theatre Practicum: Scenic I. 1 hr.
Practical experience in varied aspects of scenic work through work on Masquers productions or other staged events. Open to freshmen and sophomores. Offered on demand.

THEA 1168. Technical Theatre Practicum: Sound I. 1 hr.
Practical experience in varied aspects of sound through work on Masquers productions or other staged events. Open to freshmen and sophomores. Offered on demand.

THEA 1199. Special Topics in Theatre 1-3 hrs.
Studies in special selected topics, to be determined by the instructor and approved by the School's Dean. Credits earned will be applicable as free electives in degree and certificate programs. Maximum credit per semester: one hour.

THEA 2212. S-FSU Theatrical Makeup. 1 hr.
Fundamentals of the theory and technique of designing and applying theatrical makeup, including laboratory experience and practical experience with Masquers productions and studio theatre productions. Fall semester only, in even years.

THEA 2220. S-FSU Oral Interpretation. 3 hrs.
This course provides an introduction to the study and practice of the principles involved in understanding the meaning of prose, poetry and dramatic literature, and the effective transmission of that meaning to an audience. PR: THEA 1151 or consent of instructor. Spring semester only, in odd years.

THEA 2228. Oral Interpretation Practicum I. 1-4 hrs.
Preparation for and participation in public performances, intercollegiate competitions and festivals in oral interpretation. Maximum credit allowable per semester is one hour. PR: THEA 2220.

THEA 2230. S-FSU Acting. 3 hrs.
This course is an introduction to the theory and practice of fundamental acting techniques for the stage. PR: THEA 1151 or consent of instructor. Fall semester only.

THEA 2238. S-FSU Acting Workshop I. 1 hr.
Credit is earned for public performance in faculty-directed Masquers productions. Maximum credit allowable per semester is one credit hour. Open to freshmen and sophomores.

THEA 2244. S-FSU Introduction to Theatrical Design. 3 hrs.
An introduction to the principles of theatrical design, including scenic, lighting and costume design. Spring semester only. PR: THEA 1140 and 1151.

THEA 2251. Playwriting. 3 hrs.
The course explores the theory and practice of the playwright's art, and involves instruction in the craft of playwriting and the creation of original scripts for the theatre. Students will learn how to write for the stage, as opposed to the page. A fully developed short play will be required. PR: THEA 1151, 2230. Fall semester only, in odd years.

THEA 2262. Production Practicum I. 1 hr.
Credit is earned for practical experience in varied aspects of technical theatre production, including scenery, lighting, costuming, properties and sound, through work on Masquers productions. Maximum credit allowable per semester is one credit hour. Open to freshmen and sophomores. PR: THEA 1148.

THEA 3305. Voice for the Stage. 3 hrs.
This course is a continuation of THEA 1105, with specific emphasis on using the vocal instrument in the interpretation of texts and the creation of characters and dialects. PR: THEA 1105 or SPCH 1105, THEA 1151. Spring semester only, in even years.

THEA 3314. Advanced Theatrical Makeup. 1 hr.
Practice in advanced design and application of theatre makeup, through work on Masquers productions and studio theatre productions. PR: THEA 2212. Spring semester only, in odd years.

THEA 3326. Performance Studies. 3 hrs.
The course explores the theories and practices of approaching performance as a way of knowing. Through theatre exercises and personal discovery, students research, create and perform a solo piece for the stage. PR: THEA 2230. Fall semester only, in even years.

THEA 3330. Advanced Acting. 3 hrs.
This course is a continuation of THEA 2230, with specific emphasis on the exploration and application of twentieth-century acting theories applied to both realistic and non-realistic plays. PR: THEA 2230. Spring semester only, in odd years.

THEA 3336. Directing. 3 hrs.
Principles and techniques of play directing. Special attention is given to directing problems in educational theatre: play selection, budgeting, casting, mounting and staging, public relations and coordination of crafts. PR: THEA 1140 and THEA 2230. Spring semester only.

THEA 3340. Theatre History I. 3 hrs. Writing Intensive
A study of the development of theatre from its beginnings through the Renaissance. PR: THEA 1151. Fall semester only, in even years.

THEA 3341. Theatre History II. 3 hrs. Writing Intensive
This course is a continuation of THEA 3340, exploring the development of theatre from the Restoration to the present. PR: THEA 1151. Spring semester only, in odd years.

THEA 3344. Advanced Theatrical Design. 3 hrs.
This course will involve completed projects in scenic, lighting and costume design. Students will apply theory and introductory techniques and skills presented in the beginning course. Fall semester only, in odd years. PR: THEA 2244.

THEA 3346. Creative Puppetry. 3hrs.
The course explores the theories and practices of puppetry as an artistic performance and as an educational tool. Projects in this course will include puppet design, construction and performance. Emphasis will be placed on teaching the National Standards in Theatre as well as on ways to use puppets across the curriculum. Fall semester only, in odd years.

THEA 3348. Theatre Workshop II. 1 hrs. Repeatable up to 4 hrs.
Students in this course are assigned to Masquers mainstage and studio theatre productions. Opportunities are provided for experience in all areas of technical work, such as scenic construction, properties, lighting, costume and sound crews, depending upon the proficiency of the student. No more than one hour can be earned per semester. Open to juniors and seniors. (Freshmen and sophomores, see THEA 1148).

THEA 3350. Children's Drama. 3 hrs.
Writing Intensive
A lecture course providing an introduction to the theories and techniques involved in both creative drama for children and children's theatre. Spring semester only, in even years.

THEA 3352. Creative Drama. 3 hrs.
The course explores the history, theories and practices of playmaking, storytelling, creative drama and theatre-in-education as they are used in educational settings with diverse populations. Projects in this course will also apply drama techniques across the school curriculum. Fall semester only, in even years.

THEA 3354. Theatre Education Practicum. 1 hr.
This course involves the application of theories and techniques of children's theatre, creative dramatics and puppetry under supervision with diverse populations in educational settings. PR: THEA 3346, 3350 and 3352.

THEA 3356. Summer Theatre: Rehearsal and Performance. 1-3 hrs.
Systematic rehearsal and public performance with the Masquers Town & Gown Players. Designed for students who desire concentrated stage training and experience. Roles are dependent upon directors' selection and hours of credit desired. PR: Auditions.

THEA 3358. Summer Theatre: Production and Management. 1-3 hrs.
Experience provided in every phase of theatrical production and some phases of theatre management, in conjunction with the Masquers Town & Gown Players. Experiences include set construction, lighting, costumes, makeup, box office, house management and publicity. Assignments dependent upon hours of credit desired. PR: instructor's consent.

THEA 3360. Technical Theatre Practicum: Costuming II. 1 hr.
Practical experience in varied aspects of costuming through work on Masquers productions or other staged events. Open to juniors and seniors. Offered on demand.

THEA 3362. Technical Theatre Practicum: Lighting II. 1 hr.
Practical experience in varied aspects of lighting through work on Masquers productions or other staged events. Open to juniors and seniors. Offered on demand.

THEA 3364. Technical Theatre Practicum: Properties II. 1 hr.
Practical experience in varied aspects of properties through work on Masquers productions or other staged events. Open to juniors and seniors. Offered on demand.

THEA 3366. Technical Theatre Practicum: Scenic II. 1 hr.
Practical experience in varied aspects of scenic work through work on Masquers productions or other staged events. Open to juniors and seniors. Offered on demand.

THEA 3368. Technical Theatre Practicum: Sound II. 1 hr.
Practical experience in varied aspects of sound through work on Masquers productions or other staged events. Open to juniors and seniors. Offered on demand.

THEA 3375. Development of Dramatic Art. 3 hrs.
Writing Intensive
Study of the works of major playwrights and critical theorists of Western and non-Western theatre. Fall semester only, in even years.

THEA 3392. Costume History and Design. 3 hrs.
History of wearing apparel and appointment, with emphasis on the Western world. The course begins with the Egyptians and goes up to the present day, and offers an introduction to the principles of costume design. Fall semester only, in odd years. PR: THEA 2244.

THEA 4428. Oral Interpretation Practicum II. 1-4 hrs.
Preparation for and participation in public performances, intercollegiate competitions and festivals in oral interpretation. Maximum allowable credit per semester is one hour. Open to juniors and seniors. (Freshmen and sophomores, see THEA 2228.) PR: THEA 2220 and instructor's consent.

THEA 4432. Acting Workshop II. 1 hr.
Credit is earned for public performance in faculty-directed Masquers productions. Maximum allowable credit per semester is one hour. Open to juniors and seniors.

THEA 4438. Senior Comprehensive Project. 3 hrs.
The course consists of a capstone experience that assesses student understanding of the theories and practices studied and developed throughout the program. A significant production/research project is designed and executed with the guidance of a faculty mentor. PR: senior standing.

THEA 4462. Production Practicum II. 1 hr.
Credit is earned for practical experience in varied aspects of technical theatre production, including scenery, lighting, costuming, properties and sound, through work on Masquers productions or other staged events. Maximum allowable credit per semester is one hour. PR: Junior or Senior standing and THEA 1148 or instructor's consent.

THEA 4480. Theatre Business Management and Promotion. 3 hrs.
Study of theatre management procedures, including responsibilities and practices in business management, box office management and house management and the study of the responsibilities and practices in theatre promotion, including the use of the media. Offered on demand. Spring semester only, in even years.

THEA 4484. Theatre Business Management Practicum. 1 hr.
Practical experience in varied aspects of business management, including box office assignments through work with Masquers and other productions. PR: instructor's consent.

THEA 4488. Promotion Practicum. 1 hr.
Practical experience in varied aspects of theatrical promotion through work on Masquers productions. PR: instructor's consent.

THEA 4490. Directed Study in Theatre. 1 hr.
The student selects directed study in any area of theatre which is not treated in the theatre course offerings. Course designed by student and selected faculty, with approval of the School's Dean. PR: instructor's consent.

VETERINARY TECHNOLOGY

VETT 1113 Introduction to Veterinary Technology. 3 hrs.
The students will study veterinary laws and ethics, business and hospital management, and comparative anatomy and physiology. Various methods of medicating animals will be evaluated and practiced. The students will practice the care, handling, and restraint of the dog and cat. Two hours lecture and two hours lab per week. PR: Admission to the VT Program.

VETT 1114 Breeds and Breeding. 2 hrs.
The students will be taught the various breeds of the dog, horse, cow, and, cat, breeding behavior, reproductive physiology, and nutrition. Two hours lecture per week. Open to all students. Fall Semester.

VETT 1116 Clinical Procedures. 5 hrs.
The students will study and apply radiographic procedures, basic bandaging and external fixation techniques, surgical nursing, instrument and equipment care, and application of veterinary anesthesiology. The pharmacology of veterinary preanesthetics and anesthetics will be covered. Necropsy and tissue sampling techniques will be practiced. 3 hrs. lectures and two two-hour labs each week. PR: VETT 1113, HLCA 1100, and BIOL 1170. Spring Semester.

VETT 1122 Veterinary Pharmacology. 3 hrs.
Drug laws and regulations are reviewed. The principles, simplified chemistry, and basic concepts of pharmacology are covered. The more common drugs and their variations among species are presented. A survey of the biochemistry of metabolism and the role of nutrition in disease treatment is covered. 3 hrs. lecture per week. PR: VETT 1113, HLCA 1100, and BIOL 1170, Spring Semester.

VETT 1130 Animal Parasitology. 3 hrs.
The life cycle, pathologies and management control techniques of the parasites of the common domestic animals will be studied. The laboratory techniques for diagnosing these parasites will be practiced. Two hours lecture and two hours lab per week. Open to all students.

VETT 1170 Anatomy and Physiology. 4 hrs.
This course will introduce the veterinary student to the clinical anatomy (structure) of multiple mammalian species (concentrating on dogs and cats, but including other species) along with a detailed discussion of the physiology (function) of all the body systems that contribute to the maintenance of a viable organism (maintenance of homeostasis). Limited discussion will center on classic pathophysiologies (disease states) with clinical examples. For Vet. Majors.

VETT 1181 Pleasure Horse Management. 2 hrs.
This course will cover all aspects of pleasure horse care and handling. Students will form an appreciation of the complexities of house ownership, and the responsibilities of maintaining a healthy animal. Topics will include an overview of common breeds, nutrition, transport, health and care issues, and breeding.

VETT 1199 Special Topics in Veterinary Technology. 1-12 hrs.
Studies in special selected topics. The topic to be studied will be determined by the instructor and approved by the Program Coordinator. Credits earned will be applicable as free electives in the degree and certificate programs. Arranged.

VETT 2210 Laboratory Animal Techniques I. 3 hrs.
The current edition of the AALAS Manual for Assistant Laboratory Animal Technicians will be the guide for course material. The students will study the care, handling and restraint of common laboratory animals. The taxonomy of vertebrate animals is reviewed. Successful completion and six months clinical experience will prepare the student to take the ALAT certification examination by the AALAS. Two hour lecture and one, two-hour lab per week. Open to all students. Spring Semester.

VETT 2212 Health Management of Farm Animals. 4 hrs.
The students will study the care, handling and disease prevention of farm animals. They will practice restraint and medication techniques. Interstate regulations and shipping documents will be reviewed. The common domestic breeds of the cow, horse, pig, sheep, and goat will be studied. Several field trips will be included. Two hours lecture and one two-hour labs per week. PR: VETT 1116 and VETT 1122. Fall Semester.

VETT 2217 Clinical Laboratory Procedures. 4 hrs.
The students will study theory and practice the laboratory techniques for complete blood and urine analysis, vaginal cytology, analyses of transudate and exudate as related to clinical veterinary medicine. 3 hrs. lecture and four hours lab per week. PR: VETT 2271. Fall Semester.

VETT 2219 Seminar for Veterinary Technicians. 2 hrs.
This course is concurrent and interrelated with VETT 2272. It is designed to correlate the academic and applied techniques learned by the technician. Variations in techniques will be compared; advanced techniques may be presented. Each student is required to prepare a resume to complete the course requirements as well as an in-depth written scientific report. VT Majors only.

VETT 2222 Diseases of Domestic Animals. 4 hrs.
The body's normal defense systems and their responses to pathology will be presented. Infectious, hormonal, traumatic, and toxicological diseases of domestic animals will be covered. Four hours lecture per week. PR: VETT 2271. Fall Semester.

VETT 2271 Veterinary Preceptorship I. 4 hrs.
The student spends 160 hours working with a veterinarian for one summer term. The student will have the opportunity to function as a member of the veterinary staff. The student will be able to apply techniques learned in the classroom. VT Majors only.

VETT 2272 Veterinary Preceptorship II. 12 hrs.
The student spends 360 hours in the spring semester working with a veterinarian. The student is expected to function as a full member of a veterinary staff. The student is expected to be able to apply all techniques learned in the classroom and is expected to be able to learn and/or develop variations in techniques learned in the classroom. VT Majors only.

Faculty

Pierpont Community & Technical College

ALBANO, PATRICK (2004)
Assistant Professor of Academic Studies-History
D. Litt. Drew University
M.A., East Stroudsburg University
B.A., M.B.A. Rutgers University

ANDREW, ROBERT G. II (2002)
Coordinator/Assistant Professor of Emergency Medical Services Program
A.A.S., R.B.A Fairmont State College

BACZA, GERALD L. (1981)
Chair, School of Business Aviation and Technology
Coordinator and Professor: Drafting/Design/CAD Engineering Technology
B.S. California State College
M.A., Ed.D. West Virginia University

*BAKER, DANIEL S. (2001)
Assistant Professor of Aviation Technology
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BEIGHLEY, DAVID M. (2005)
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Director of the Robert C. Byrd National Aerospace Education Center
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A.A. Lane Community College
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Coordinator of Criminal Justice
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Pg.D. University of Leicester

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*BORN, BEVERLY R. (1995)
Coordinator of Physical Therapist Assistant Program
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M.D. University of Calcutta, India
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Coordinator of Health Information Technology
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B.S. The Ohio State University
B.S. Fairmont State College
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FLOYD, BRIAN A. (2002)
Coordinator Culinary Arts and Pastry & Baking Arts
Instructor of Food Service Management
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ACF Certified Executive Chef

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M.B.A. Heller Graduate School

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Temporary Assistant Professor/Coordinator of Veterinary Technology
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B.A. Allegheny College
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** Founding Faculty*

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DUNLEVY, JAMES O. (1965-69; 1972)
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M.A. Arizona State University

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M.M. The University of Akron
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Football Coach
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ENSIGN, TODD (2005)
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M.Ed. Northern Arizona University

FITCH, JOHN R. (1970)
Associate Professor of Sociology
B.A., M.A. Syracuse University

FLOOD, MARK R. (1994)
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B.S. Purdue University
M.S. Washington State University
Ph.D. Utah State University

FREEMAN, PHILIP M. AIA(2003)
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M.Arch. Virginia Polytechnic Institute and State University

FULDA, MICHAEL (1971)
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GALLO, VERONICA (2004)
Assistant Professor of Nursing
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GEORGE, LELAND M. (1984)
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S.B., Ph.D. Massachusetts Institute of Technology

GIORCELLI, REBECCA (2005)
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BSIE, MSIE West Virginia University
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GOODWIN, JAMES C., II, P.E. (1971)
Chair, Department of Technology
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GOODWIN, RONALD W., CPA (1978)
Associate Professor of Accounting
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GOODWIN, SUSAN (1989)
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GRUBB, WILLIAM (1997)
Distance Learning Library Services Librarian
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Professor of Physics
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HARVEY, RICHARD (1988)
Dean of Graduate Studies
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M.S. University of Phoenix

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Dorothy A. Wedge, Ph.D.
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Jack Wills, Ph.D.
Professor Emeritus

Institutional Directory

Institutional Board of Governors

The institutional Board of Governors for Fairmont State consists of nine members appointed by the Governor with the advice and consent of the Senate and a representative from the faculty, classified staff, and student body chosen by their respective groups.

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James Griffin, Vice-Chair – Bridgeport
Robert Kittle, Secretary – Bridgeport
Dixie Copley, Board of Advisors – Fairmont
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Carl Friebel – Clarksburg
Andy Kniceley – Fairmont
Larry Mazza – Clarksburg
Connie Moore – Faculty Representative
Michelle Nabers – Student Representative
Sandy Shriver – Classified Staff Representative
H. Skip Tarasuk, Jr. – Fairmont

Pierpont Community & Technical College

WEST VIRGINIA COUNCIL FOR COMMUNITY AND TECHNICAL EDUCATION

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Stan Cavendish.....Charleston
James C. Cole.....Petersburg
Jason Cuomo.....Wellsburg
Mary Clare Eros.....Martinsburg
Stanley Hopkins.....Charleston
John Panza.....Fairmont
Clarence B. Pennington.....Martinsburg
Ronald Radcliff.....Charleston
Nelson B. Robinson.....Charleston
Greg Smith.....Parkersburg
Ruth Thompson-Scott.....Madison

INSTITUTIONAL BOARD OF ADVISORS

The institutional Board of Advisors for Pierpont Community & Technical College consists of twelve members and a representative from the faculty, classified staff, and student body chosen by their respective groups.

Linda Aman.....Lewis County
Bruce Carter.....Clarksburg
Michelle Casteel.....Clarksburg
Charles Chandler.....Buckhannon
Dixie Copley.....Fairmont
Reggie Hawver.....Weston
Jim Hunt.....Clarksburg
Joann James.....Bridgeport
Mike McCoy.....Burnsville
Roger Perdue.....Farmington
Charles Reese.....Fairmont
Gerald Bacza.....Faculty Representative
Joyce Ross.....Classified Staff Representative
.....Student Representative

Fairmont State University

HIGHER EDUCATION POLICY COMMISSION

The Higher Education Policy Commission was established by Senate Bill 653 enacted on March 19, 2000. The commission is responsible for developing, gaining consensus around and overseeing the implementation of a public policy agenda and for developing a master plan for higher education for the state. The commission is comprised of nine members, seven of whom are appointed by the Governor with the advice and consent of the Senate.

Mary Clare Eros, Chair ..... Shepherdstown
Elliott G. Hicks, Vice-Chair ..... Charleston
Michael S. Garrison, Secretary ..... Morgantown
Richard Adams, Sr. ..... Parkersburg
J. Thomas Jones ..... Morgantown
Steven L. Paine ..... Charleston
David Richard Tyson ..... Huntington
Kay Huffman Goodwin, Ex-officio ..... Ripley
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